А		В	С	D	E	F	G	Н	I	J	K	L	М	N
				Doto	Commen					For/Against				
1	Name		Affliation	Date Received	Code	Summary Main Comments	Pg. #	Add'tional Comments	Categorey of Comment	Proposed Decision	Against	For	Unclea	
2	Name		Aimanon	Received	3-A	Concerned about 2007 overspray on his property and wants us to consider toxic effects.	1 g. //	1 Includes link to similar	Forestry-pesticides	Troposed Decision	Agamst	For	Uncie	1
	-				371	Notes wildlife and fish just starting to come back. Recent testing of old domestic water supply still		story on overspray in	r orestry pesticides	_				
3	(b) (6)		citizen	12/20/13	3-B	shows residual effects.		1 Curry County.	Forestry-pesticides	Unclear				1
						· Oregon needs to prioritize clean water (even for smallest streams) and guard against human-made			Forestry-riparian;					
4					4-C	landslides.		1	landslides; pesticides				1	
5					9-A	· Supports proposed decision.		1	Decision					
	(b) (6)		-:4:	10/05/12	0 D	For too long, has been concerned about landslides, siltation, and clearcuts from forestry and		1	Forestry-landslides, riparian, clear cuts	F				
0	_	+	citizen	12/25/13	9-B	· Oregan should be penalized. Citizens in Oregon do not have healthy, sustainable old-growth forests, and		1	Penalities; General-need to	For				
7					11-A	non-polluted streams.		1	improve water quality					
8	_		citizen	12/30/13	11-C	· Need to stop runoff from past logging roads.		1	Forestry-roads	for			1	
		Ť			10-C	· Too much focus on water quality improvements. Given population/development increase, even			General-water quality					
9						maintaining water quality levels at 1990 levels is a success.		1						
					10-D	· The CWA has demonstrated that its needed revisions over the years as evidenced by prior amendents			General-problems with					
10		_				and recommends now is another time to address problems with CZARA.		1	CZARA					
						• Through experience on watershed assoc and previous position in USFS, believes state and OWEB,			improvements in water					
11	_				14-B	SWCDs, watershed groups are doing (and have done) a lot to improve wq		1	quality					
						ODF is working to strengthen forest rules for riparian protection but face political challenges that require			F					
12					14-D	thoughtful science to bring along. Maintaining support of forest industry is important for water quality protection and will take longer than Spring 2014.		2	Forestry-riparian; General- need more time	Against		1		
12	_	+			14-17	• There are no meaningful regulatory assurances in OR's CNP to protect water quality and designated			General-fails to meet	Against		1		
13					15-C	uses.		1	wqs/uses					
						· Salmon habitat and continued federal species listings show that the salmon resource(s) in Oregon have			General-salmon; General-					
14					15-E	been and continue to be declining		2	fails to meet wqs/uses					
						There is a great deal of overlap between indicators of habitat and water quality. Need to fully examine								
15 TK					15-E-1	interconnectedness of physical habitat and water quality (temperature, min flow, nutrients, and industrial pollutants).		2	Forestry Riparian					
16 TK	-				15-E-1 15-E-2	· · ·			Tolestry Kiparian					
10 111	_				13 13 2	NOAA/EPA need to include in future rationales and consider when evaluting future state submissions:								
						interconnected habitat and water quality factors and legacy issues, beaver management, watershed and								
						riparian factors influencing water quality, novel human chemical contaminants, over-allocation of water,								
						urban runoff from older as well as newer developments, and little consideration given to the importance o	f		General-need to consider					
17	_				15-F	maintaining groundwater flow connection(s), and climate changes		2	other issues					
						Greater amounts of LWD in streams contributed by older forests and intact riparian areas, as well as large								
						shifting beaver complexes, helped to maintain floodplains, habitat complexity, hyporheic flow, and								
18 TK					15-F-1	hydrologic stability. These are related to sediment, nutrient, and wood routing and retention.			Forestry Riparian					
						Typical management of coastal lands results in chronic, persistent, unremitting disturbance. This is on to	٩							
19 TK					15-F-2	of legacy impacts. Lower reaches of coastal streams show evidence of thisdenuded riparian areas, low LWD, unstable banks, high energy channels			Forestry riparian					
20 TK					15-K-1			_	Riparian Forestry	1				
						FPA rules are outdated and need to be revised. In 1996 NMFS has stated key problems with rules and			1					
21					15-L	improvements. Most of these issues were affirmed by independent scientific panel.		5	Forestry-general					
						N. I			General-need to consider					
22				-	15-M	Need to consider climate change. Climate stressed organisms can be more sensitive to pollution. Organization has tried to speak with ODFW and ODFW Commission leadership but claims offers to	1	6	other uses				1	
23					18-D	meet/hear their recommendations were not acted on.	througho	out	Forestry-General				1	
24		+			19-A	Oyster farmer in Tillamook Bay	2	1	j contrar				-	
25			citizen	2/28/14	19-E	· Despite many investments in studies from NEP, still a wq problem.		1	General-water quality	For			1	
26					20-A	· OR streams are among the cleanest in nation and provide suitable water for aquaculture.		1	General-water quality					
27	_				20-В	Additional riparian setbacks would only hurt logging industry and drive up price of lumber.		1	Forestry-riparian					
						When BLM adopted NWFP buffers it limited the amount of timber that could be harvested. Under old								
20 TV					20 B 1	system, one landing. Under NWFP, three landings and two more harvest units to get the same amount of	1		Forestry Dinarian					
28 TK 29	\dashv				20-B-1 20-C	timber. The result of more restrictive riparian buffers would be more ground disturbance Coos County has more forestry than any part of Oregon and more salmon.		1	Forestry Riparian Forestry-general	4				
43				L	20-C	Coos County has more forestry than any part of Oregon and more samion.	1	1	1 oresu y-generai	I	1			

	D D		D	E	г	G	Т	т т	1	V	1 , 1	M N
A -	D		D		r -	G	П	Forestry-General; General-	J	K	L	IVI IN
								made improvements to				
30	(b) (6)	citizen	1/8/14	20-D	Watershed councils are doing good work and we don't need additional regulation.	1		water quality	Against		1	
30	_` ´ ` `	Citizen	1/6/14	20-D	Oregon doesn't have practices in place to protect streams from polluted runoff. Although state still		•	General-fails to meet	Agamst		1	
31				22-В	claimins programs are effective	1		wqs/uses				
31	-			22 -D	Federal/state govn't have responsibility to manage waters in the public trust for max. long-term benefit			General-fails to meet				
32				22-C	for current/future generations. This is not being done.	1		wqs/uses				
33	-			22-C 22-D	TMDLs show that existing programs are not working (high water temps, sediment loads and nutrients).	1		General-fails to meet				
33	-			22-10	Many states have stronger NPS controls for forest practices. OR is frequently judged as the weakest			General-tails to meet				
24				22-E	along the west coast. Its time for them to change.	~	,	Forestry-General			1	
34	-				Supports proposed decision (on all counts)4 forestry concerns, osds and new devel.			Decision			1	
35	-			23-A	· Supports proposed decision (on an counts)4 forestry concerns, osus and new devel.			Decision			1	
26 1777				22 4 1				Et Dii				
36 TK			0/14/14	23-A-1				Forestry Riparian	-			
37	_	citizen	3/14/14	23-В	· Also necessary for state to include ag MM necessary for achieving WQS.		2	Ag-add MMs	For			
				24.5	· Commentor is fisherman that as witnessed OR's inability to protect fish-bearing streams from forestry			Forestry-general; Forestry-				
38				24-B	runoff (logging and rd building).	J		roads				
					· BOF/ODF have had proposals to improve stream protection come before than but to date, have failed to							
39				24-C	take action.	1		Forestry-riparian				
40				24-D	· DEQ has also failed to take action to respond to forestry issues too.	1		Forestry-General				
								Decision; General-fails to				
					· Agrees OR has not met conditions and needs to do more to protect coastal wq but imposing penalities on			meet wqs/uses; Penalities-				
41				25-A	czm and 319 is wrong.	1		negative impacts				1
					· State legislature is one that needed to take action but has not; rather they have obstructed ODEQ's ability		(1.) (0)	General-need to improve	For (but no			
42		citizen	3/14/14	25-C	to make the changes the agency wanted to.	1	(b) (6)	water quality	penalities)			
								General-need to improve				
43		citizen	3/14/14	26-A	· Fisherman and no doubt that polluted runoff is an issue.	1		water quality	For		1	
44				27-A	· No one has authority for small lot foresters.	1		Forestry-General				1
								Forestry-clear cuts;				
45				27-B	There is no program that monitors private forestland clear-cuts, or spray and burn operations	1		Forestry-pesticides				
					· Need preventive measures to assure that forestry operations near Clear Lake won't make water							
					undrinkable (get drinking water from lake and has observed small-lot foresters airial and hand spraying							
					pesticides/herbicides near lake.Note: I'm including this comment in the riparian review as riparian buffers			Forestry-pesticides and				
46		citizen	3/18/14	27-C	are a potential preventative measure (TK)	1		Forestry Riparian	No opinion			
								Forestry-riparian; Forestry-				
					· Very narrow or non-existent buffers along streams that flow into Siletz. Clear cut to banks and airial			clear cuts; Forestry-				
47				28-B	spraying over cuts.	1		pesticides				
					Very narrow buffer zones are visible on the shores of main rivers, such as the Siletz. Even there, you can							
					find places where the forest buffer has been eliminated completely. Streams that flow into the Siletz are							
48 TK				28-B-1	in many instances not allowed a buffer zone at all. Concern for drinking water and fish			Forestry Riparian				
					· Concerned about contamination of drinking water (Newport gets water from Siletz), fish and soil							
					contamination from spraying. Criminal that state does not provide better protectionsespecially as rate of			Forestry-General; Forestry-				
49				28-C	clear cutting/forestry activities increase due to increase in China exports.	1		clear cuts				
]							General-voluntary				
50				28-E	· Oregon relies largely on voluntary actions for its CNP and is not using back-up authority.	1		approaches				
]				Even when NOAA/EPA granted OR additional time to address conditions, OR waters are no better than			General-need to improve				
51				28-F	they were before.	1		water quality				
					· OR hasn't done anything to address polluted runoff in coastal watersheds and shouldn't be given			General-need to improve				
52				28-G	approval until it does.	2	2	water quality			1	
					· Oregon does not have a program in place to control nonpoint source pollution in our coastal watersheds							
					that carries out CZARA management measures, nor does Oregon have the additional management							
					measures the law requires to achieve and maintain Oregon's water quality standards and measures the law			Decision; General-fails to				
53				30-B	requires to achieve and maintain Oregon's water quality standards and protect Oregon's drinking water.	1		meet wqs/uses				
]				· Disheartened that Oregon has failed to bring logging practices into compliance with federally approved							
					water quality standardsputs contaminants in our drinking water, directly affecting our personal and							
54				30-C		2	2	Forestry-General				
55]			30-D	Agrees with NOAA/EPA that OR need to develop add MM for forestry.	2	2	Forestry-General				
	1				Oregon must increase protection of riparian areas for small and medium fish and non-fish streamsand			Forestry-riparian; Forestry-				
56				30-E	high-risk landslide areas.	2	2	landslides				
57				30-F	OR must address impacts of forest roads better, including specifically so-called "legacy" roads	3	3	Forestry-roads				
					OR must increase buffers for the application of pesticides to both fish and non-fish bearing streams and							
58				30-G	take other actions to prevent pesticides from entering water that affects people, fish, and wildlife.	3	3	Forestry-pesticides				
	1		1	20 0	The state of the s		1	- 11354 J Pesticides		L		1

A	В	С	D	E	F	G	Н	I	J	К	L	М	N
					· ODFW and NMFS agree many freshwater environmental impacts on Oregon coast coho are human			Salmon-need more					
					related, including "rearing and spawning habitat loss. (see:			protection; Forestry-					
50				20.7	http://www.dfw.state.or.us/fish/species/coho.asp). Even ODF has found its logging practices violate water			General; General-fails to					
59				30-I	quality standards (see: http://www.science.oregonstate.edu/~madsenl/files/GroomDentMadsen2011.pdf) · Watersheds experience landslides from failed logging roads. Sites 4 landslides in Arch Cape (drinking	3		meet wqs/uses					
60				30-J	water sheds in 2013.			Forestry-landslides					
00				30-3	• 20 ft buffers ODF mandates on drinking water streams are too narrow to w/stand blowdowns and		,	1 orestry-tandshides					
61				30-K	provide much protection from airial spraying.	4	1	Forestry-riparian					
					Noted winter blow down of the already inadequate riparian buffers. Strong coastal winds accelerate			J. V. J. P. V. V.					
					through the clear cuts and abruptly hit the buffers with great force. When these buffers fall, there is								
62 TK				30-K-1	nothing holding the soil in place so our creeks suffer.			Forestry Riparian					
63				30-L	· Complete lack of buffers on non-fish streams make sedimentation a constant impairment/risk.	4	1	Forestry-riparian					
					· The drinking water for our communities routinely have high levels of known carcinogens,								
					trihalomethanes and haloacetic acids. These high levels are caused when excess sediment that enters								
					public waters from logging roads and inadequate riparian buffers reacts with disinfectants required to			Forestry-General; Forestry-					
64			-	30-M	treat the water.		1	riparian; Forestry-roads					
GE				20 M	• To meet federal drinking standards, both Arch Cape Water District and the City of Rockaway Beach had to install extra filter membranes at significant cost. Now entire community faces higher water hills	,	1	Forestry-General					
65				30-N	to install extra filter membranes at signficant cost. Now entire community faces higher water bills. CZARA requires OR to demonstrate that it has additional MMs to meet water quality standards and		†	General-fails to meet					
					protect designated uses (salmon, amphibians, drinking water). Oregon has failed to do this. OR relies			wqs/uses; General-					
66				30-O	heavily on voluntary measures which are worthless since tehy are not being adhered to or enforced.	4	1	voluntary approaches					
					States excuse about inadequate studies and need to postpone actions to allow for additional research is			J					
					unacceptable. Research already exists that shows problems. (Cites DEQ 2011 WQ Status and Action Plan								
67				30-U	for Northcoast Basin)	5	5	Forestry-General			1		
								General-fails to meet					
								wqs/uses; Salmon-need					
68			=	31-B	· State is failing to protect its already imperiled runs of native salmon/steelhead.	1		more protection					
								Forestry-pesticides;					
69				31-D	· Timber companies are unaccountable for overuse of pesticides, landslides caused by poorly maintained logging roads, and increased sediment load in our rivers which inhibit salmon spawning ability.	1	1	Forestry-landslides; Forestry-roads					
69				31-D	While forestry is important contributor to NPS, in particular, concerned that OR's programs for new		Not a Riparian Forestry	Forestry-General; New					
70				34-B	devel and OSDS are not sufficient to meet wqs.	1	issue	Devel; OSDS					
7.5				0.2				Decision; Salmon-need					
								more protection; Forestry-					
71				35-A	·Supports disapproval. Local salmon runs have been devestated by forestry/development.	1	1	General; New deve	for		1		
					Recent pollution wiped out all coho eggs in local hatchery and kills frogs/salmon in local stream. Paper			General-salmon; General-					
72				35-B	said state was not investagating pollution source.	1	1	fails to meet wqs/uses					
					Oregon's efforts to address nonpoint pollution of our waters has been monumental failure (Hecta Water			General-need to improve					
73				35-C	Dist. Near Clear Lake)		2	water quality					
74				25 D	·Clear Lake is directly threatened by pesticide and herbicide applications inside the watershed, as well as land disturbance on steep slopes near the lake from logging operations.	,	A 44 - 1- 1 1002 1-44 - 1	Forestry-pesticides; Forestry-General					
/4				วว-บ	DEQ, Lane County, and the City of Florence all regularly adopt rules and regulations which allow		Attached 1992 letter from Dr. Larson that has	_		+			
					development that will obviously pollute the aquifer - commercial stormwater drainage directly into pipes		done his own	New Devel; OSDS;					
					in the aquifer, residential development on septic systems next to lakes and surface water, logging			Forestry-General; Forestry-					
75				35-E	activities that include application of all manner of chemicals, etc.	2	of Clear Lake.	pesticides					
					Oregon does not have a workable program that meets the requirements of EPA and NOAA for a coastal								
					nonpoint pollution program. Piecemeal approaches such as promises to increase TMDL's, tighten			New devel; Forestry-					
				27.	Department of Forestry riparian rules and decommission legacy roads, are insufficient as basic			riparian; Forestry-roads;					
76				35-I	management measures to grant Oregon approval for a nonpoint program.		+	General-water quality					
					NOAA/EPA need to require Oregon to provide not only a solid framework of basic management measures, but also a detailed and concrete list of additional management measures to actually protect								
					riparian areas, and provide substantially increased protections for fertilizer, herbicide and pesticide			Forestry-riparian; Forestry-					
77				35-J	applications near fish-bearing and non-fish bearing streams.	4	1	pesticides					
					Loggers in Sutton, Mercer, Woahink, and Siltcoos watersheds have clear-cut timber down to the shores			1					
	(,) (2)				of all four lakes. Much of the entire watershed along the north shore of Mercer Lake was clearcut in								
78 TK	(b) (6)	citizen	3/19/14	35-J-1	1990, creating the potential for future soil erosion and lake degradation			Forestry Riparian					
					· Supports proposed disapproval. Significant clear cuttings occuring in "protected" (Clear Lake)			Decision; Forestry-clear					
79				40-A	watershed w/ minimal (10 ft) buffers between waterways (including drinking water source) and homes.	1	1	cutting; Forestry-riparian			1		
					Spraying and burning also occurs very close to (and over) homes too causing health problems and								
80				40-B	contaminating drinking water. This should not be allowed.	1		Forestry-pesticides					
					· Attempting to relocate during spray/burn events causes financial hardship and spray/burn permits can								
01				40.0	last for months. Owners are given no warning when activities will occur. Property values are lowered and	_	,	Formation					
81				40-C	no one would buy home if tried to sell due to publicity of harmful forestry activities in area.	, ,	4	Forestry-pesticides					

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	, , , , , , , , , , , , , , , , , , ,				· Shocked that OR allows this to happen to its citizens and hopes laws change soon to protect citizen	11	1	,	K		IVI	11
82	(b) (6)	citizen	3/20/14	40-D	health and drinking water.	2	Forestry-general	For				
					· Oregon does not have a program in place to control nonpoint source pollution in its coastal watersheds							
					that is sufficient to carry out the CZARA management measures, as well as the							
					additional management measures the law requires to achieve and maintain Oregon's water quality		Decision; General-fails to					
83				42-B	standards, including protecting Oregon's designated uses, including drinking water standards.	1	meet wqs/uses					
							General-fails to meet					
84	-			42-C	OR's current WQS and drinking water standards are failing to protect drinking water	1	wqs/uses					
					Jetty Creek watershed provides drinking water to Rockaway Beach. 80% of watershed has been clearcut over past several years even though DEQ source water assessment noted these are steep slopes with		Equatury along systimas					
OF.				42-D	erosive soils.	1	Forestry-clear cutting; Forestry-landslide					
85	-			42-17			1 orestry randshae					
86 TK				42-D-1	ODF agreed that the size of the buffer zone left along the lower wetland bordering Jetty Creek seemed questionably effective, but said it was within the law		Forestry Riparian					
00 TK	-			42-D-1	BLM forester stated that an intact forest helps maintain healthy drinking water and fish habitat. The	-	Torosay raparan					
87 TK				42-D-2	forest can act as a filer and keep streams cooler.		Forestry Riparian					
07 TK	-			42-D-2	Rockaway Beach drinking water has exceeded the EPA standards for allowable trihalomethane (THM)	=	Torestry Repartan					
88				42-E	for the last three years (forms when add Cl to overly turbid waters).	2	Forestry-General					
					After having been in contact with numerous public agencies, we are certain that Oregon does not have		,					
					sufficient laws and regulations in place to insure safe and clean drinking water, as well as adequate fish		General-fails to meet					
89				42-I	and wildlife habit.	2	wqs/uses			1		
90				43-B	Oregon FPA aren't effective and state has no intentions to improve.	1	Forestry-General					
				-	· ODF and Gov's Natural Resource staff say state's land use laws provide protections but if they worked,							
91				43-C	wouldn't have problems we see today.	1	Forestry-General					
					· Logging around Quartz Creek denuded the area. Designation of spotted owl sites and high risk areas		Forestry-clear cutting;					
				42 D	meant nothing to operator. Hills, road failures, and on-going erosion verify the consequences of ODF's	1	Forestry-General; Forestry-					
92				43-D	ineffective rules and laws. Clear that OR forest practices are far behind CA and WA. There are signifant differences in setbacks,	1	roads					
					notification or application process and consequences for non-compliance rather than just passing the		Forestry-General; Forestry-					
93				43-E	consequences on to future generations.	2	riparian					
55	-			43-L	With 70% of Oregon's streams threatened or endangered because of temperature, sediment and		принип					
					chemicals it is past time to reign in these Oregon logging practices and laws do not begin to protect		Forestry-General; General-					
94				43-F	ecosystems or future generational needs	2	fails to meet wqs/uses			1		
PL		(b)	(6)	43-BBB	Department of Forestry laws are woefully inadequate. 2	Riparian/General						
95												
					· OR does not have effective programs in place to limit nonpoint source pollution in our coastal		General-fails to meet					
					watersheds. The plans and rules they do have are not actually working programs sufficient to meet and		wqs/uses; General-need to					
96				44-B	maintain water quality standards and protect our clean water, fish and other public uses.	1	improve water quality					
					· Areas where program improvement needed that could actually work to control polluted runoff from							
					logging would be protection of riparian areas for small and medium streams (fish and non-fish bearig),							
					including sufficient riparian buffers for application of pesticides along non-fish streams; treating old logging roads often built on fill that are leaching sediment, protection of high-risk landslide areas from		Forestry-riparian; Forestry-					
97				44-D	cuts	1	roads; Forestry-landslides					
3,				7-17-17	Concerned that beavers, which could help re-build our downcutting streams channels and make complex		10ado, 1 orestry landshides					
98				44-G	floodplains and wetlands, are trapped or hunted out.	1	Beavers			1		
99					·NPS is biggest threat to OR coastal waters habitats, etc.	1	General-water quality					
33				45-A	Large industry (forestry roads and spraying) is impacting water quality. OR needs laws to protect water	1	Forestry-roads; Forestry-					
100	(b) (6)	citizen	3/20/14	45-B	quality. Need to use CNP to improve these issues and laws to provide better oversight.	1		For		1		
100		CHIZCH	3/20/14	43- D	quanty. Need to use extr. to improve these issues and laws to provide octics oversight.	1	pesticides	OI .		1		
			(1.) (6)	ı	Large companies with large land holdings are doing a large amount of dangerous activities that impact us							
PL			(b) (6)	45-AAA	all, our wildlife habitats and the purity of our water in our State. These activities require oversight from 1	Riparian/General						
					laws that effectively reign in pollution released into our waterways.							
101												
					·Oregon is failing to protect are native fish; native aquatic and aquatic-dependent wildlife including birds,						+	
					mammals, and amphibians; public and private drinking water; fishing, including eating fish free from							
					contamination; swimming, wading, and boating; and my ability to enjoy the aesthetic qualities of		General-needs to meet					
102]			46-B	Oregon's waters and wetlands.	1	wqs/uses					
					• State is not doing enough to prevent polluted runoff from forestryespecially related totimber harvesting		Forestry-General; Forestry-					
103				46.0	and riparian protection (fish and nonfish-bearing streams and for pesticide application). (EP -State has		riparian; Forestry-					
103				46-C	many years of failure to control runoff pollution from timber harvest and pesticide use on forest lands)	4	pesticides					

I A	В	C	D	E	F (G	Н	I I	J	К	L	М	N
	_				· Concerned about chemical use and its impacts on neighboring property (sites example of husband		<u></u>	-			_		
					experiencing side effects from alledged nearby pesticide use and contamination of domestic water								
				46.0	supplies). Need to do more than just adhear to label requirementsthat shouldn't be all that is legally	_		F ((1.1)					
104				46-D	required for industry to meet. Concerned about insufficient or complete lack of warning from ODF when pesticides will be used near	3		Forestry-pesticides					
105				46-E	property.	5		Forestry-pesticides					
103			-	40 L	ODF's assumptions, policies, laws and practices, pose a huge threat to the quality of life, long term			1 oresity pesticides					
106				46-F	economic viability, and sustainability of our communities.	5		Forestry-General					
					OR needs to protect surface drinking water in Deer Creek Watershedcritical source of water for			Forestry-General; General-					
107				46-G	residents.	6		needs to meet wqs/uses					
					Oregon doesn't have programs in place to protect and restore riparian areas needed to maintain cool stream temperatures and habitat, protect and restore channel conditions from								
					modification, protect and restore wetlands, identify where more protection is needed to protect important			Forestry-riparian; Ag-					
					habitat for species, identify where more pollution control is needed to protect uses, monitor water quality			riparian; Hydromod;					
					and use water quality data to improve pollution controls, monitor pesticide use and impacts, assess			Wetlands; Monitoring-					
					whether pollution controls are reducing pollution and improving water quality, link the enforcement			improvements needed;					
					agencies and process with other agencies, or use enforcement when voluntary actions are not adequate to	_		Toxics/Pesticides; General-					
108				46-H	protect water quality. State has gotten by with an ineffective piecemeal approach, including promises to tighten TMDL's,	-7		voluntary approaches					
					increase the size of riparian buffers under Department of Forestry rules for logging on private lands,			General-need to improve					
					decommission and/or restore so-called legacy roads in forestlands, and craft a voluntary approach to			water quality; Forestry-					
					onsite septic leakage. All of these things are necessary, but none are remotely sufficient to solve the			riparian buffers; Forestry-					
109				48-A	problems facing coastal communities.	1		roads; OSDS			1		
					· Supports disapproval. Lack of NOAA/EPA action and penalities has allowed OR to continue limping								
110				40 D	along with half-measures for seventeen years that are effective while drinking water and other	7		Danisia w Danishia					
110			-	48-B	impairments occur.	/		Decision; Penalties					
111				48-C	State has refused to create, use, enforce and maintain a nonpoint program that protects the designated uses.	2		General-fails to meet wqs/uses					
111			-	40-0	There are no 6217 MM to protect drinking water from logging—the central issue for coastal			wqs/uses					
112				48-D	communities.	2		Forestry-General					
					Agree that state need to adopt add. MM for forestry. Otherwise WQS std/designated uses (drinking water)								
113				48-E	won't be met.	2		Forestry-General					
114				48-F	· Drinking waters are surrounded by private forest land or are below forest operations. 20ft buffers on fish- bearing streams do not protect from sedimentation and pesticide/herbicide use.	2		Forestry-riparian					
115			-	48-G	Concerned about ODF's vague public notification requirements when spraying.	2		Forestry-pesticides					
116			-	48-H	ODF/DEQ don't have regular testing protocols for pesticides after sprays.	2		Forestry-pesticides					
			-		Lack of sufficient protection for non-fish bearing streams is significant issue. Agree with NOAA/EPA			, ,					
117				48-I	that add MM for better rip protection of non-fish bearing streams is needed.	3		Forestry-riparian					
					The 20-foot riparian buffer where required is completely ineffective, and subject to blowdown in even a								
118	Oregon Coast Alliance	organization	3/20/14	48-J	moderate coastal storm.	3		Forestry-riparian General-fails to meet	For				
119				19-B	OR doesn't have program in place to meet CZARA requirement and WQS and protect designated uses	1		wqs/uses					
113				17-1	ox doesn't have program in place to meet 622 like requirement and 11 Qb and protect designated uses	1		Forestry-General; Forestry-					
120				49-C	Oregon has failed to control run-off pollution from timber harvest and logging roads.	1		roads					
]				Insufficient riparian buffers for fish and non-fish bearing streams contributes to polluted runoff and								
				=	doesn't have programs in place to adequately protect and restore riparian areas needed to maintian cool								
121				49-E	stream temperatures and habitat. OR has failed to control polluted runoff from eroding streambanks and shorelines and the effects of dams	1		Forestry-riparian					
					on water and habitat and channel modification and doesn't have programs in place to provide adequate								
122				49-F	protection	1		Hyrdomod					
			-		OR doesn't have programs in place to protect streams/fish from polluted runoff from pesticide use on								
123				49-H	forest land and monitor pesticide use and impjacts.	1		Forestry-pesticides					
				40 -	OR doesn't have programs in place to adequately assess whether pollution controls are reducing pollution			Monitoring-improvements					
124				49-I	and improving water quality; Doesn't believe Oregon has described link between the enforcement agencies and process with other	1		needed General-voluntary					
125				49-J	agencies and use enforcement when voluntary actions are not adequate to protect water	1		approaches					
126				53-A	Supports disapproval.	-		Decision			1		
					OR doesn't have programs in place to protect drinking water. Problems with logging, pesticide use,								
127				53-B	quarries.	1		General-Forestry					
128				53-C	Logging rds/overharvesting/landslides cause excess turbidity that reacts with Cl to produce carcinogens.	1		wqs/uses; Forestry-					
129				53-D	No monitoring after spraying to understand true impacts/risks. Little warning when spraying occurs.	1		Forestry-pesticides					
120				52 F	Need to require turbidity monitoring of streams during and after rainstorms and use enforcement for excess turbidity. Need road surface condition monitoring on a regular basis.	2		Monitoring-improvements					
130				53-E	excess turbidity. Need road surface condition monitoring on a regular basis.	2		needed					

			_			T	_		T			1
A	В	С	D	E	F G	Н	I	J	K	L	М	N
					Problems with FPA include restrictions on clearcuts to 120 ac by one owner (doesn't account for		T					
131				53-F	cumulative impacts of nearby owners)	2	Forestry-clear cutting					
							Monitoring-improvements					
132				53-G	Need to ensure quarries operating in drinking water areas are inspected regularly and regulated properly.	2	needed					
	Oceanside Cleanwater				DOH only requires inspection of drinking water for organic toxics every 3 yrs. Needs to be more frequent		Monitoring-improvements					
133	Subcommittee	organization	3/15/14	53-H	and relevant to when spraying occurs.	2	needed	for				
					OR needs to do more to prevent NPS to bays/estuaries. All but one of the bays in which shellfish are							
					farmed commercially require daily monitoring because of pollution impacts of a non-point source origin.		General- Need to Improve					
134				51-B	Some of these growing areas may end up being closed for over 100 days each year for pollution reasons	1	Water Quality					
				64, 66, 68-	Values the CNPCP program and 319 \$ because programs provide funding for stream improvement and		General; Penalties -					
135				В	restoration projects and monitoring in our areas. Penalities are counterintuitive		Negative impacts					
				64, 66, 68-	Oregon is meeting and in many ways exceeding the federal statutory and regulatory requirements for		C1					
136				D	Coastal Zone Act Reauthorization Amendments (CZARA) grant funding.		General					
					To say Oregon landowners have not worked on protecting water quality does not take into account the							
				61 66 69	many volunteer actions we have done. For instance, in the Wilson River watershed, a variety of partners							
				04, 00, 08								
137					have spent more than 1.4 million dollars restoring and protecting the lower Wilson Watershed.							
					FPA is written to protect the timber industry, not the human and wildlife communities it invades, riparian							
					ordinances established to facilitate development and private property "rights" that eschew public							
138				52-B	responsibility have assured the steady degradation of Oregon's environmental health and beauty.	1	General-Forestry					
139				54-A	Supports disapproval even though recognizes penalities will hurt programs working to do good.	1	Decision			1		
	7				OR needs improved pesticides application restrictions and protections for all classes of streams in both							
					forestry and agricultural areas. Additionally, we encourage EPA and NOAA to require even greater							
					pesticide protection standards for all land use areas within the Oregon Coastal Zone to prevent many of		Forestry-Pesticdes;					
140				54-B	the unmonitored dangers that these chemicals pose to humans and aquatic species, like salmon.	1	Agriculture-Pesticides					
					EPA and NOAA improperly assume that, should riparian buffer standards for type N streams and							
					monitoring programs within the coastal zone adhere to existing state laws and programs concerning water							
					quality and pesticides, then Oregon's CNPCP would warrant approval. We disagree because existing state							
					and federal laws fail to address large swaths of the pesticide application activities and fail to collect		Forestry-Pesticdes;					
141				54-F	critical pesticide application and risk data.	3	Agriculture-Pesticides					
	1											
					Documented in a recent report, Oregon's Industrial Forests and Herbicide Use: A Case Study of Risk to							
					People, Drinking Water and Salmon, private forestry operations in Oregon operate under antiquated and							
					loose regulations, allowing aerial spraying and unmonitored applications of pesticides as compared to							
					their federal forestry operation and border-state counterparts. Specifically 1)There are known endocrine							
					disrupting chemicals entering our drinking water sources and fish-bearing streams.							
					2) Oregon does not require a no-spray buffer near homes and schools. 3) Aerial herbicide sprays regularly							
					occur directly over headwaters and tributaries of protected salmon streams. 4) Oregon permits pesticides							
					to be sprayed with only the smallest protective buffer of 60 feet from salmon and steelhead streams—a							
					buffer significantly smaller than other Northwest states with similar forest and river ecosystems. 5)							
					Stricter chemical and pesticide rules apply in neighboring states with heavy forestry industries. 6) Under							
					the current administrative rules, the Oregon Forest Practices Act prohibits researchers, doctors and the		Forestry-Pesticdes;					
142				54-G	public from obtaining accurate information about what types and quantities of herbicides are sprayed	6	Agriculture-Pesticides					
	1				Cites environmental and health risks from glyphosate and other pesticides. Also expressed concerns		Forestry-Pesticdes;					
143	Beyond Pesticides	organization	3/20/14	54-H	regarding unknown and unmonitored risks of pesticides. 4-5, 7-10		Agriculture-Pesticides	for				
144	Beyond Testierdes	organization	5/20/1.	55-A	Supports disapproval	1 1990s to help develop	1-8	101		1		
144	╡			33-A	Notes penalities seem counterintutive to Congress' intent with CZARA to improve coastal wq and does	1 1990s to help develop				1		
					not impact the 2 agencies (ODF/ODA) that can actually do something to address issues. DEQ doesn't							
145				55-B	have authority to tell ODF/ODA to do something and lacks political will to get it.	2	Penalties					
143	-			33-В	Protection of riparian areas: ODF's own study, Ripstream, documents that harvesting on private forest	2	1 charties					
					land carries a significant risk (estimated at 40%) that harvesting will result in violations of Oregon's water							
146				55-J	quality standard for protecting cold water.	4	Forestry-riparian					
1-10	╡			J.J.J	In theroy, EQC has legal authority to require changes that will provide protection to streams, the practical	1	Torostry riparian					
					reality is that there is no certainty whatsoever that there will be any additional riparian protection							
					provided. EQC/DEQ can petition BOF but they can take 2 yrs to act and even then, could decide no to do							
147				55-K	anything.	4	Forestry-riparian					
148	╡			55-K	Significant stream turbidity issues in Suislaw due to forest activities/rds.	5	Forestry-roads					
1-10	╡			JJ-L	Analysis of pesticide application records in the Triangle Lake area west of Eugene shows that in the study		1010301 y 100003					
149				55-M	area, more than 20 tons of pesticide products were applied in just a three-year period.	5	Forestry-pesticides					
143	╡			JJ-1V1	The Board has not given any indication of an intent to provide riparian protection for small non-fish		Torestry pesticides					
					bearing streams which make up 70% or more of the coastal stream miles. While the streams do not							
150 AH				55-P	support fish, they flow into fish bearing streams.	5	Forestry Riparian					
	1		ı	1 22 1	AA // V vi	1			1			

	D	С	D	F	F G	н	т	1	V		М	N
A	D	-	D	E	Supports Beyond Toxics Comments. Need mandatory spray buffers and vegetated riparian zone. Buffers	П	Forestry-pesticides;	J	N.	L	IVI	IN
151	(b) (6)	citizen	3/20/14	55-N	around streams.		Forestry-riparian	for				
131		Citizen	3/20/14	33-11	ODA is abandoning its approach in addressing riparian improvements. It now appears to have initiated a		Torestry Tipurium	101				
152 AH				55-O	new program. See the attached specific web sites							
132 7111				33 0	Concerned about the impacts of polluted runoff from currently defined NPSs that are a product of timber							
					harvest, agriculture and urban development. Specifically how those sources currently raise stream							
					temperatures, and pollute our waterways with bacteria, turbidity and sediment and the ways these types of							
					activities impact stream banks stability, and unnaturally increase the speed of runoff and stream flow							
					following precipitation events, altering the natural hydrograph and changing erosion patterns. These types							
					of pollution and other alterations effect threatened species such as Southern Oregon Northern California							
					Coast (SONCC) coho salmon, other aquatic life and the public's ability to safely recreate and obtain clean		General- water quality;					
153				56-B	drinking water.		general-salmon					
					OR needs additional MM for forestry. State's claim that land use laws and voluntary FPA are sufficient is							
154				56-C	false. Much more is needed.		Forestry-general					
					State has had over 16 yrs of notice backed by numerous studies/reports (1998 conditional approval,							
					IMST, Ripstream, NMFS SONCC, Statewide Eval of FPA Effectiveness) that needs to do more with							
155				56-D	forestry yet they still claim voluntary is way to go. 2 to 3		Forestry-general					
156 TK				56-D-1	Oregon's forest practices are not sufficient to recover wild salmonid:		Forestry -riparian					
					NMFS determined that OFPA did not have implementing rules that adequately protect coho salmon							
					habitat. Low probability that LWD recruitment could be achieved. OFPA does not provide adequate							
157 TK				56-D-2	protection for the production and introduction of LWD to medium, small, and non-fish streams		Forestry -riparian					
158				56-E	NMFS recommeded buffers range from 150-300ft far above 20ft that OR has (only for fish-bearing).		Forestry-riparian					
		1			Stream side no-cut buffers that have been identified by NMFS as sufficient to protect threatened							
159 TK				56-E-1	salmonids include 170-foot from Ordinary High Water (OHW)		Forestry-riparian					
					Under Northwest Forest Plan no-cut buffers 300-foot on fish bearing streams or 150-foot on non-fish							
160 TK				56-E-2	bearing streams		Forestry-riparian					
					Oregon's no cut buffers need to be increased substantially to ensure large wood recruitment, filtration of							
					sediments and pesticides, and sufficient basal area in the riparian corridor for shade required for							
161 TK				56-E-3	protection of cold water		Forestry-riparian					
					Need larger spray buffers (may be better tha mulit-agency approach that attempts to monitor pesticide							
162				56-F	impacts).		Forestry-pesticides					
					State's July 1, 2013 submission lacks any description or details about what methods the state uses in							
					evaluating effectiveness of BMPs, nor a process for evaluating when additional BMPs may be required to							
					protect beneficial uses, nor any criteria for enforcement if the use (or not) of those BMPs results in							
					detrimental impacts to beneficial uses. The State goes on to claim that "Voluntary reporting of voluntary							
					measures has diminished in past years, however it is reasonable to assume that voluntary measure							
1.50				56.0	implementation has not." If reporting has dropped, it does not seem reasonable to assume that		F (1					
163	-			56-G	implementation continues, considering the voluntary nature. 3		Forestry-roads					
					States voluntary approach to address new devel isn't sufficient. TMDLs for a number of parameters							
					certainly cover the bulk of the area in question, but may not cover the whole CZARA area, nor would they							
					be for all the parameters that may be at issue in those areas. Needs to be very clear what authority they							
					will use, show development of an implementation structure, a commitment of resources to that structure, a							
					track record of use of backup authority when criteria require it, and a clearly articulated method to							
					evaluate progress. In the interim while those are being developed, the State needs to be clear on what type							
164		1		56-H	of outreach and training will be done as part of the voluntary measures that are being proposed.		New Development					
165	1	1		56-I	State needs direct rule for new devel.		New Development					
	1							ľ				
					We ask that EPA/NOAA require Oregon to implement additional management measures, in particular for		Ag-add MMs; Foresty-					
166				56-M	agriculture, forestry and urban development, to meet water quality standards and protect designated uses. 8,9		general, New Development					
					Climate Change Preparation/Mitigation, and Ocean Acidification: Need to prepare for climate change by							
		1			putting programs in place to prevent harm to water quality and make watersheds more resilient to large							
		1			storms, by requiring wider stream buffers for forestry and agriculture operations, larger fish-friendly							
		1			culverts that pass more water from larger storms, improved road drainage, road drainage disconnected							
					from streams, removal of valley bottom and mid-slope roads that intercept the downslope movement of		General-need to include					
					beneficial wood and sediment, reduced road density especially in steep terrain, and better protection for		other issues; Forestry-					
167				58-B	unstable slopes.		general					
168 TK				58-B-1	Larger stream buffers would store additional carbon and reduce GHG emissions		Forestry riparian					
		1			Oregon's programs for protection of water quality could be improved by fully implementing its statewide		General-need to include					
169		1		58-C	land use goals which incorporate concepts of "carrying capacity."		other issues					
		1			Oregon has approved several TMDLs in the Coast Range but the assumptions underlying those TMDLs							
		1			are about to be undermined by efforts to reduce stream protection on federal forest lands. All of the							
					alternatives proposed by BLM for the revision of its Resource Management Plans in western Oregon call							
170				50 D	for significant narrowing of stream buffers, and none of the action alternatives maintain the current		Forestry Company					
1/0				58-D	buffers. http://www.blm.gov/or/plans/rmpswesternoregon/files/alternfaq.pdf 4		Forestry-General					

А	В	С	D	Е	F G		Н	I J	K	L	М	N
					The TMDLs approved by the state allow more logging on non-federal lands, under the assumption that							
					there logging near streams on federal lands would be strictly limited. Now it turns out that there will likely							
					be more logging near streams on federal lands, so there needs to be a corresponding decrease in logging							
					near streams on non-federal lands in order to avoid exceeding the watershed scale waste load identified in							
171					the TMDLs.			Forestry-logging				
172				58-E	Focus on forest issues have been on shade/sediment. Also need large woody debris. 4,5,6			Forestry-General				
					Large wood is recruited from a large area adjacent to streams and upslope, including unstable areas that							
					move downslope toward streams (implication is that harvest in riparian areas will result in lack of delivery							
173 TK				58-E-1	of large wood to streams)			Forestry riparian				
					Riparian corridors have been substantially degraded across large portions of the landscape. Restoration							
					and maintenance of productive aquatic habitat is not a common stated objective of State programs that							
174 TK				58-E-2	influence the management and use of riparian areas			Forestry riparian				
					Abundant large wood is essential to maintain biological and hydrological processes in streams (sediment							
					retention and transport; habitat formation; substrate for biological activity). Woody debris comes directly							
175 TK				58-E-3	from adjacent riparian area, from tributaries that may not be inhabited by fish, and from hillslopes			Forestry riparian				
					Large wood is not just needed instream but also adjacent to the stream. Conifer basal area is less in							
					second growth forests. Riparian restoration will depend on regeneration rates of conifers in the future.							
					Regeneration is dependent in part on downed large trees. The role of nurse trees in forest regeneration is							
176 TK				58-E-4	widely recognize			Forestry riparian				
					Greater retention of live trees and snags in riparian stands and adjacent upslope source areas will							
177 TK				58-E-5	enhance the generation of future riparian forests			Forestry riparian				
					Oregon needs greater controls on spraying chemicals such as pesticides and herbicides in coastal			Forestry-pesticides;				
178				58-F	watersheds, especially near streams.	6		Agriculture-pesticides				
					Cites issues w/ existing OR struture for regulating wq. DEQ delegated authority to ODF/ODA (controlled			Forestry-General; Ag-				
179				58-G	by industry), lack of public participation, BOF stacked by pro-industry, etc. 6,7			General; Other				
								Forestry-clear cut; Forestry-				
								landslides, Forestry-				
180				58-H	Cites numerous studies about inadequacy of OFPA and how its worse than federal and neighboring states. 7 to 11			riparian; Forestry-roads				
					White paper analyzing the proposed O&C Trust, Conservation and Jobs Act provides ample evidence							
181 TK				58-H-1	supporting the need for more stringent programs to protect water quality in Oreogn's coastal zone			Forestry riparian				
					Since streams form a linked network, water quality and stream health is closely associated with the							
					intensity and cumulative extent of forest management activities near streams of all sizes, in all parts of							
					the network. Approximatley 55% of the 27,000 stream miles examined in Oregon are either severely or							
182 TK				58-H-2	moderately impacted by nonpoint source pollution			Forestry riparian				
					The OFPA and similarly intensive forest practices have been widely criticized for failing to protect water							
					quality and salmonid habitat (failures relate to shade, large wood, tributary protection, unstable slopes,							
183 TK				58-H-3	and road system impacts)			Forestry riparian				
					94 percent of riparian areas on non-federal land are ranked as poor with regard to the presence of large							
184 TK				58-H-4	conifers			Forestry riparian				
					Under current management, there are lower levels of large wood than occurred historically, and the							
185 TK			1	58-H-5	potential for recruitment will not result in its replenishment			Forestry riparian				

A	В	С	D	Е		G	Н	I	J	T K	L	М	N
					We urge EPA to carefully review the following additional sources to fully appreciate the water quality			-			_		.,
					impacts of industrial forestry and associated road impacts in coastal watershedsDraft Report of the								
					Forest Practices Committee on Salmon and Watershed.								
					August 2000.								
					NMFS Position Paper of Oregon Forest Practices Independent Multidisciplinary Science Team 1909, Pacceptary of Wild Salmonide in Western Oregon								
					Independent Multidisciplinary Science Team. 1999. Recovery of Wild Salmonids in Western Oregon Forests: Oregon Forest Practices Act Rules and the Measures in the Oregon Plan for Salmon and								
					Watersheds. Technical Report 1999-1 to the Oregon Plan for Salmon and Watersheds, Governor's Natural								
					Resources Office, Salem, Oregon National Marine Fisheries Service 1998. A Draft Proposal Concerning								
					Oregon Forest Practices								
					National Marine Fisheries Service 1996. Position Paper on the Oregon Forest Practices Act								
					Buchanan, J.B. 2005. Challenges of Avian Conservation on Non-Federal Forests in the Pacific Northwest.								
					USDA Forest Service Gen. Tech. Rep. PSW-GTR-191. 2005.								
					Stout, H.A., P.W. Lawson, D. Bottom, T. Cooney, M. Ford, C. Jordan, R. Kope, L. Kruzic, G.Pess, G. Reeves, M. Scheuerell, T. Wainwright, R. Waples, L. Weitkamp, J. Williams, and T. Williams. 2011.								
					Scientific conclusions of the status review for Oregon Coast coho salmon (Oncorhynchus kisutch). Draft								
					revised report of the Oregon Coast Coho Salmon Biological Review Team. NOAA/NMFS/NWFSC,								
					Seattle, WA.								
					FEMAT Chapter V - Aquatic Ecosystem Assessment, pp V-12 - V-29								
					"Cumulative Effects of Forest Practices" by Beschta et al.								
100 000				70 TT 6	WA DNR Forest Practices HCP EIS			.					
186 TK				58-H-6	Concerned about pesticide spraying. Secondhand account of citizens in western Lane County that had			Forestry riparian					
	(b) (6)			59-A	insecticide show up in blood tests and became ill after pesticide spraying. More needs to be done to	1		Forestry-Pesticides; Ag-					
187	(b) (6)	citizen	3/20/14	37 11	protect human health from pesticide exposure.	•		Pesticides unclea	r			1	
	Ť				Oregon has failed to control NPS from timber harvest and the construction and maintenance of logging								
					roads. Last year I participated in steelhead spawning surveys on the Salmonberry River in Oregon's coast								
				61-B	range. I saw the results of poorly planned logging roads on steep slopes where whole hillsides had slid	1							
					down into the creek below after heavy winter rains. I do not believe that Oregon's Forest Practices Act is adequately protecting the riparian areas which results in degraded water quality for fish/wildlfe and								
188					drinking water.								
	-			62-B	Concerned with logging impacts from pesticide/herbicide use and habitat "mistreatment". There should be	1		Forestry - Pesticides					
189				02-B	no aerial spraying close to known drinking water sources.	1		·					
				(2 C	Need more regular monitoring of drinking water for pesticides/herbicides; designated uses and water	1		Monitoring -					
190				62-C	quality standards in coastal watersheds are not protected.	1		Improvements needed; Forestry - Pesticides					
250				(2 D	There should be larger buffers to protect from temperature impacts, particularly in the Siletz River	2							
191	_			62-D	watershed.	2		Forestry - Riparian					
					Concerned with logging impacts, particularly from clearcutting and resultant hillside erosion, which may			Forestry - General; Forestry					
192				63-B	pollute our drinking water spring. We had severe clearcutting around our private forest and this caused substantial loss of river quality.	1		- landslides					
132				03-Б				Monitoring -					
193				63-C	Inadequate WQ monitoring of logging impacts	1		Improvements needed					
194				63-D	Inadequate Program for protection and restoration of riparian areas	1		Forestry-riparian					
195	_			63-E	Disruption from tree harvests and road construction	1		Forestry-roads; clear cut					
196				76-A	Concerned about pesticide spraying. They have tested posititive for pesticide/herbicides even though they	1	First-hand account	Forestry - Pesticides unclea	r			1	
196				76-B	run an organic farm. Would like to incorporate many other studies/reports by reference (included links in letter)	1		Forestry - Pesticides	1			1	
198		citizen	3/20/14	76-B	Supports pesticide-free buffers around schools, such as near Triangle Lake.	2		Forestry - Pesticides					
								,					
				67-A	Supports disapproval although regrets loss of funding.	1		Forestry - General					
				07-A	oupports assupptoral atmough regions to some financial section of the section of	1		1 orestry General					
199					Oragon does not have a program in place to control noncoint nellesting and the second to the second		_				1		
				67-B	Oregon does not have a program in place to control nonpoint pollution sufficiently to meet the additional CZARA MM needed to attain/maintain was and protect designated uses, particularly due to logging on	1		Forestry - Roads; Forestry -					
200				5, D	private lands.	1		Landslides					
201		Wild Salmon		67-D	Observed sediment loads from forest roads and landslides	1	Many aerial photos						
202		Center,		67-D	State's own Ripstream study note inadequacy of buffers to control temperature and other WQ impacts	1	provided to back up	Forestry - Riparian					
202 203 TK		Northwest		67-D-1	Current Forest Practices Act buffers are not adequate to prevent significant stream warming		assertions	Forestry riparian					
204 TK		Guides and Anglers		67-D-1	Narrow Stream buffer along Kinney Creek (where landslide reached stream)		-	Forestry riparian					
205		Association,		67-E	Additional MMs needed for foresty such as what is described on pg. 7-12 of proposed findings.	1		Forestry - General					
		Oregon Chapter		67-E-1				Forestry Riparian					
206		of the Sierra			Need more measures to buffer streams (especially small and medium fish streams and non-fish streams)								
207		Club, Pacific		67-F	Used Salmonberry River in north Coast range as prime example of impacts.	2		Forestry - General					

	Λ	В	· ·	D	F	F I	G	Н	T T	1 1	V		М	N
		(b) (6)	Rivers Council,	D		Refutes OR's claims the land use laws provide sufficient protection even if they've helped prevent		11	Farantes Caracal	,	K		IVI	IN
208			private citizen	3/20/14	67-G	sprawl, still need to control forest industry that is damaging remote watersheds	11		Forestry - General	for				
						Waters are at risk from pesticides and other toxic chemicals, oil and grease, sediment, salts, excess			General - Habitat					
200					69-B	bacteria and nutrients released from agricultural and timber lands, from roads and urban areas, from	1		protection					
209						construction and mining areas, from eroding stream banks, livestock, and faulty septic systems.				I deleted the				
										Forestry-Riparian				
										general category for				
										this comment.				
						Francish and the stind and buffer for a side of the stind and buffer for a side of the stind and the				Given the context				
					69-C	Especially concerned about inadequate buffer for aerial spray pesticide application. Oregon has an inadequately small no-spray buffer zone around fish-bearing streams and no effective program to protect	2		Forestry - Pesticides;	of the sentence, I				
					07-0	non-fish bearing streams.	2		Forestry - Riparian	believe the				
										commenter is				
										talking about				
										Pesticides related measures primarily.				
210										(EP)				
								Report is attached;		(21)				
211					70-A	Supports disapproval	1	many references cited				1		
						Beyond Toxics report on pesticide/herbicide use in forestry shows that FPA lacks any program to protect			Forestry - General; Forestry					
					70-C	Oregon streams and their beneficial uses (see report attached). Requires no pesticide buffer on non-fish	2		- Pesticides; Forestry -					
212						streams even though neighboring states (WA, ID) require 25ft buffers. In non-fish bearing streams, amphibians and crawfish are affected by pesticide application			Riparian					
213					70-D	Unknown risks from synergistic interactions of chemicals mixed together.	2,3		Forestry - Pesticides	-				
						Oregon has inadequate protection of fish-bearing streams and drinking water compared to neighboring	,		Forestry - Pesticides;					
214					70-E	states.	3		Forestry - Riparian					
						Reviewer Note: All of the riparian comments relate to no spray buffer widths rather than tree retention								
215	TK			ŀ		buffers during harvest. No additional riparian comments identified								
216					70-F	Oregon has no program to determine the presence of forestry pesticides in the air and resulting in drift and deposition onto surface waters and soils.	3,4		Pesticides - Monitoring					
210						Herbicides (e.g., Atrazine) can persist in water and can bind with soil particles, so under OR's FPA,				-				
					70-G	pesticides such as atrazine are sprayed into dry channels that become active in wetter months, carrying	4		Forestry - Pesticides					
217						herbicides downstream to fish.								
					70.1	Oregon must develop a research program to determine if aerial application of herbicides is necessary for	_		Monitoring - Improvement					
218		Beyond Toxics	organization	3/18/14	70-J	timber production. Oregon needs additional management measures to protect uses and water quality from pesticide drift.	5		needed; Forestry - Pesticides	for				
210		Beyond Toxics	organization	3/10/14				This is a very	resticites	101				
						CZARA statute requires a 3-step analysis for the states to take before additional MMs can be imposed,		significant comment for						
						including: 1) identify land uses which may cause or contribute significantly to a degradation of: (A) those coastal waters where there is a failure to attain or maintain applicable water quality standards or protect		the legal team to						
						designated uses, as determined by the State pursuant to its water quality planning processes; or (B) those		address. 22-page letter						
						coastal waters that are threatened by reasonably foreseeable increases in pollution loadings from new or		is signed by Heath Curtiss, General						
					77-D	expanding sources.	3, 4	Counsel & Director of	General - Legal; General -					
					77 D	2) identify Critical Coastal Areas (CCAs); 3) identify additional MMs within CCAs to address	5, 4	Government Affairs,	Problems with CZARA					
						impairments and are necessary to attain WQS. This authority to determine additional MMs is reserved		OFIC. CC to Gov.						
						exclusively for the state, not the federal agencies. Further, CZARA doesn't require states to adopt additional MMs that "may be necessary" or are "arguably necessary" to meet WQS, only ones that		Kitzhaber, Richard						
						actually "ARE necessary." NOAA/EPA have provided no indication that their self-selected additional		Whitman & 2 state						
219						MMs will enable the state to meet WQS.		agency directors (DEQ						
219						To overcome Oregon's determination that a particular land use does not contribute significantly to a		& DOF)		-				
						degradation of water quality standards, the Agencies would need to produce evidence to the contrary.								
					77-E	Likewise, to overcome Oregon's determination that additional management measures are not "necessary	4		General - Legal; General -					
						to achieve and maintain water quality standards," the burden would again be on the Agencies to produce			Problems with CZARA					
220						evidence to the contrary.								

	А	В С	D	E	F	G	Н	I	J	K	L	М	N
221				77-F	Oregon's Forest Practices Act establishes a dynamic program that responds promptly and deliberately to environmental issues as they arise With respect to water quality, the Oregon Forest Practices Act (the "OFPA") mandates that the Board of Forestry adopt standards for forest practices that "provide for the overall maintenance" of "water resources, including but not limited to sources of domestic drinking water." ORS 527.710(2)(b). The OFPA also charges the Board of Forestry with establishing "best management practices and other rules applying to forest practices as necessary to insure that to the maximum extent practicable nonpoint source discharges of pollutants resulting from forest operations on forestlands do not impair the achievement and maintenance of water quality standards established by the Environmental Quality Commission." ORS 527.765(1). Note that this language hews closely to the CZARA requirement that the CNPCP include additional management measures necessary to "attain or maintain applicable water quality standards." Forest Practice Rules are fully enforceable.	4, 5, 6		Forestry - General; Forestry - Legal					
222				77-G	FPA requires BMP monitoring with adaptive feedback. Board has charged ODF with pesticide use monitoring, OAR 629-620-0700(1), and landslides and public safety monitoring. OAR 629-623-0000(4). In each circumstance, the Board will consider the monitoring results and take appropriate action, including when necessary, development of new forest practice rules. Cites example of 2002 road runoff drainage study that led to improved rules. FP Rules have evolved over time.	5, 6	See also App. A for how FP Rules have evolved over time.	Forestry - General; Forestry - Legal					
223				77-H	NOAA/EPA findings that that Oregon's existing measures for protection of medium and small fish bearing streams (type-F) and non-fish bearing streams (type-N) are not adequate to protect water quality and designated uses relies on an uncritical view of the 15-year-old Ripstream IMST, and 12 year-old Sufficiency Analysis, and fails to consider the most current and relevant research. At best, it is an incomplete and inaccurate assessment of the most recent science findings. At worst, it represents a fundamental misunderstanding of the science.	7	Discussion of other research findings continues on p. 8 and following	Forestry - Riparian					
224				77-I	NOAA/EPA misinerpreted the RipStream Study findings. See different RipStream conclusions on p. 8.	8		Forestry - Riparian					
225				77-I	The lack of any discussion about findings from the Watersheds Research Cooperative (the "WRC") represents a huge omission in the Agencies' analysis of the Oregon CNPCP. In the Sufficiency Analysis (ODF and ODEQ 2002) there is a discussion about the adequacy of riparian buffers along small type-N and small and medium type-F streams.	8, 9	Effects on temperature noted in WRC study are discussed on pp. 10-11. WQ & wood recruitment discussed on pp. 12-13.	Forestry - Riparian					
226				77-Ј	We disagree that the FPA is not protective of high-risk landslide prone areas. in evaluating the results from Turner et. al. (2010), it is misleading to focus only on landslide density relationships. Rather, it is important to also consider the total number of landslides triggered during major storms. While landslide densities have been shown to be higher in steep terrain with young forest stands, the proportion of this area across mountainous terrain is potentially very low, so that potential increases in sediment delivery to public resources from landslides triggered in these areas is also proportionately small Channel alterations from debris flows are a naturalhabitat-forming process and not necessarily negative.	14, 15, 16		Forestry - Landslides					
227				77-K	EPA argues that Oregon must have additional management measures for forestry to protect HLHLs, to maintain good water quality, and to ensure that designated uses are protected. However, EPA does not offer any objective evidence that these additional measures are necessary. We respectfully suggest that EPA consider a landscape-scale view over long timeframes as the proper context for evaluating whether water quality standards and designated uses are impaired or attained. Disturbance and recovery processes are an essential part of these landscape-driven forest ecosystems.	16, 17		Forestry - Landslides					
228				77-L	From a strictly legal perspective, the Agencies have produced no evidence (much less, substantial evidence), that landslides resulting from forest management activities are causing water quality standard exceedances, or negatively impacting aquatic life more than landslides do under background conditions. Without more, a decision to disapprove Oregon's CNPCP would not withstand judicial review.	17		Forestry - Landslides					
229				77-M	Roads: The Agencies "remain concerned" (about forest roads delivering sediment into streams) without citing a single source indicating a problem exists, without citing any water quality standard or beneficial use the rules fail to protect, indeed without citing a single reason for concern.	17		Forestry - Roads; Forestry - Legal					
230				77-N	Roads: There have been significant new rule revisions in 2002 and 2003, and broad success under the Oregon Plan for Salmon and Watersheds, all detailed thoroughly in the State's July submission to the Agencies.	17		Forestry - Roads					
231				77-0	The agencies allege that the state has not provided "a commitment to exercise its back-up authority to require implementation of additional management measures for forestry roads, as needed." This is ludicrous. The rule revisions in 2002 and 2003 indicate that the OFPA is working precisely as it should, and evidence a continuing commitment by the Board of Forestry to implement additional management measures as needed. One would be hard-pressed to imagine better evidence of the Board's commitment. If there were additional data indicating that forest roads continue to "cause or contribute significantly to a degradation of coastal waters"—an issue ODF is actively monitoring under OAR 629-635-0110—then the Board would initiate a new rulemaking, as it has done repeatedly in the past.	. 17		Forestry - Roads					

	٨	D.	С	D	E		G	Н	T		V	LIN	1 N
1	А	D	C	U	E	The Agencies also assert that the State has not provided sufficient data to the Agencies to document	G	П	1	, , , , , , , , , , , , , , , , , , ,	K	L r	I IN
						effectiveness of voluntary efforts under the Oregon Plan. The Agencies suggest that an extensive (and							
						expensive) inventory and reporting program for forest roads is necessary "to determine the extent of							
						forestry road miles not meeting current road standards within the nonpoint management area." Here, the							
					77-P	Agencies presume a problem exists (again, without citation to a single source) until the State can prove	18		Forestry - Roads				
					//-P	otherwise. However, nothing in CZARA requires that a state prove a negative. Additionally, data shows	10		Forestry - Roads				
						that salmon stocks are recovering since the 1990s. Finally, we are not aware of any scientific evidence							
222						indicating that habitat and water quality conditions have materially improved in Washington State due to							
232						implementation of their road maintenance and abandonment program							
					77-Q	Alleging that Oregon's rules are insufficient without reason, and without any support, is the definition of	19		Forestry - Roads; Forestry -				
233						arbitrary, and a disapproval action on this basis would not survive even cursory judicial scrutiny.			Legal				
						Water quality monitoring of a type-N (non-fish bearing) forest stream during and after herbicide spray							
						operations (applied under OFPA rules and guidelines and FIFRA/labeling regulations) shows no evidence							
						of detrimental impacts. Nevertheless, Oregon continues to support monitoring that would identify		Research supporting					
					77-R	potential problems should they arise Recent monitoring has not found a problem with contemporary	19, 21	OFIC/OSWA comments	Forestry - Pesticides				
						forest aerial herbicide spray operations; in fact just the opposite. Oregon is currently monitoring for over		presented on pp. 20-21.					
						100 pesticides, which will allow the state to respond should herbicides be identified at unacceptable							
234						levels.							
						Since 1998 there have been significant changes in how chemicals are applied to forests under FIFRA.							
						Findings from the Spray Drift Task Force and other research led to revisions in chemical labeling.							
					77.0		10		Forestwy Dogt: -: 1				
					77-S	Pesticide applicators are licensed under FIFRA and recent court rulings have further increased regulation	19		Forestry - Pesticides				
						of applicators and land owners. Oregon's Forest Practices Act rule guidelines state that applications must							
235						comply with the most stringent of requirements of either the label, or forest practice rules and guidelines.							
						ODF has developed extensive guidelines for implementing the Oregon Forest Practices Act rules for							
						herbicide applications to forest lands. See Oregon Department of Forestry, Forest Practice Rule Guidance:							
					77-T	Chemicals and Other Petroleum Products (2009), available at http://goo.gl/uv8oIH. Also cite pesticide	19		Forestry - Pesticides				
236						monitoring studies that show no significant impact.							
237						inomoring statutes that show no significant impact							
				Oregon									
				Forest									
	PL			Industries	77-AAA	Private landowners, foresters, and loggers support the OFPA, and application of the rules is high (Robben	7	Riparian					
	· =			and Oregon		and Dent 2002).	•						
238				Small									
				Oregon									
				Forest									
				Industries		The WRC study at Hinkle Creek appears to highlight the role of smaller debris to provide shade for type-N							
	PL			and Oregon	77-BBB	streams and the critical role of woody debris and rocks for cover in small fish-bearing reaches.	13	Riparian					
				Small		saleanie and the entitle of flood, destrict and receive the solicit meaning received							
239				Woodlands									
				vvoodianus									
						The OFDA vulge for small and modifies fish has size streams do not like this to the same of							
						The OFPA rules for small and medium fish-bearing streams do provide minimum requirements for							
				Oregon		development of large mature trees that can contribute key wood pieces to streams. These contributions							
				Forest		can be augmented by discretionary placement of wildlife trees along riparian areas; policies that promote							
				Industries		active management of riparian areas to accelerate the development of large mature trees near the							
	ים				77.000	stream; and voluntary measures by landowners including retention of additional leave trees in the near-	12	Dinarian					
	PL			and Oregon	77-CCC	stream area, and placement of large wood or wood-structures in streams as part of active management	13	Riparian					
				Small		or other conservation efforts (See discussion on Oregon Plan for Salmon and Watersheds). The long-term							
				Woodlands		wood recruitment needs for Oregon streams can most efficiently be achieved through a combination of							
				Association		these OFPA rules that provide for minimum leave trees along fish-bearing reaches and the many options							
						for voluntary enhancements to targeted reaches needing additional wood volumes.							
						Tot voluntary enhancements to targeted reaches needing additional wood volunes.							
240													

Λ		C	D	F		G	Н	T T	l V	L I M	l N
PL 241	D	C	Oregon Forest Industries and Oregon Small Woodlands Association	77-DDD	Perhaps most importantly, the WRC studies are measuring the fish and macroinvertebrate response to contemporary forest practices, and the results are available at http://watershedsresearch.org. The findings so far indicate that timber harvesting on headwater type-N and along small and medium type F streams is not degrading fish populations.	13	Riparian			L	IN .
242				78-J	ODA's Water Quality Management Program does not ensure landowner compliance with the admittedly insufficient rules. Until recently, compliance with the area rules was only investigated if a signed complaint was lodged.						
243	Oregon Environmental Council			78-H 78-k 71-F	ODA has recently developed a new strategy for its water quality program to determine compliance with the rules. This is an important step forward. However, there is still a serious scale problem with the program's ability to ensure compliance with the rules. Under ODA's current plan to assess agricultural landowner compliance with the area rules by 6th field HUC watershed, it can assess compliance in 6-12 6th field HUCs/biennium. At this rate, ODA will be able to assess compliance with its (insufficient) rules in approximately 1500 6th field HUC watersheds containing agricultural land uses statewide in 250 years. This is not a reasonable timeframe to ensure compliance with the rules. Oregon is not reliably or adequately controlling run-off pollution from agricultural lands due to agency reliance on insufficient rules, inadequate enforcement of the rules and lock of an implementation plan with specific timelines and goals to enlist agricultural landowners in the voluntary actions necessary to protect and restore riparian vegetation, prevent erosion and reduce bacteria run-off into local creeks and rivers. NOAA/EPA don't provide scientific data or substantial evidence that identifies agriculture land uses as a cause or significant contributor to water quality impairment in Oregon's coastal streams. There is no sound scientific evidence to demonstrate that agriculture lands within the coastal zone in fact cause or significantly contributing to water quality degradation. ODA is required to regulate, based on science, those agriculture activities that are causing the type of water pollution that prohibits the State from achieving and maintaining water quality standards. As explained in Section III, ODA has the enforcement authority necessary to ensure compliance with watershed basin rules on the coast and throughout the State of Oregon. While opponents of the AWQMP	4		Ag - general			
246				71-G	highlight the fact that ODA has only taken a few enforcement actions, implying that ODA is not requiring compliance, nothing could be farther from the truth. The truth is that ODA works directly with land owners in noncompliance to make certain land use changes before enforcement is necessary.	5		Ag - EP&Ms			
247				72-B	EPA & NOAA have found that Oregon forests have adequate stream buffers for pesticides on salmon bearing streams. How was this determined? Seasonal and non-fish bearing streams have not been considered. Isn't this the water that feeds the fish-bearing streams and rivers? Stream buffers and logging practices in this state are a jokea sad joke.	1		Forestry - Pesticides; Forestry - Riparian			
248			-	75-B	Ecological function of the Oregon Coast Range and Cascade Range Foothills has been and continues to be severely degraded by the harvest activities associated with industrial, clear-cut logging. Look in any direction and clear cuts abound. (Up to 120 acres are allowed by the OFPA!)	1		Forestry - Clear cuts			
249				75-C	Concerned about lack of riparian buffers in clear cuts and spraying.	1		Forestry - Riparian; Forestry - Clear Cuts; Forestry - Pesticides	рејесец таск от прапап		
250				75-D	Inspected recent road failure: The down hill shoulder of this mid-slope sited road had broken away in several locations, due to fill slope failure. Mud and debris flows, some recent, were much in evidence, their effect on the watershed some two or three hundred feet below, clearly discernible. This phenomenon, obviously the result of heavy rain fall on deforested and very steep slopes, has repeated itself with regularity over the years I have been roaming these hills. It is a disgrace and impacts directly on water quality. The cost to repair the failure will be borne by U.S. taxpayers through BLM & FHA.	2	First-hand account	Forestry - Clear cuts; Forestry Landslides; Forestry - Roads	buffers". Also, deleted Forestry-Riparian from 'Category of Comment'. Riparian issue is not raised on page 1 of this letter. Roads		
251				75-E	Notes changes in tax law favor private timber industry and don't recoop enough \$ to help local govn't. Amounts to shameless taxpayer-funded PR propaganda for timber interests. Illustration of "deliberate lack of political will to fund the appropriate agencies and activities that are crucial to improving Oregon's degraded water quality.	2		Forestry - General			
252				75-F	Points out that "NOAA noted in its fairly recent opinion about potential ESA delisting of the Coastal Coho Salmon, the benefits of such riparian restorations, although worthwhile, were being rapidly outstripped by the effects of logging in the uplands. Nothing has changed."	3		Forestry - General; Forestry - Riparian			
253				75-G	Recognizes that disapproval will have financial consequences for 319 that their organization and others benefit from but its time for state to do something.	3		Forestry - General; Penalties - Benefits			
254				75-H	Rip Stream found the OFPA to be out of compliance with Clean Water Act Standards. Since that finding four years ago riparian buffers on private langs remain negligible to nonexistent.	3		Forestry - Riparian			
255				75-I	Impacts of siltation: the port of Bandon and other coastal facilities require regular and expensive dredging to remain open. This water born mud does not fall with the rain.	3		Forestry - Riparian	all added by EP from original letter		

				1						1	I	1	1	
	Α	В	С	D	E		G	Н	Ι	J	K	L	М	N
256					75-J	Umpqua Watersheds implores you to pressure Oregon to fulfill obligation to all beings and the habitats that depend upon abundant, clean, cold water for continued healthy existence.	3		Forestry - Riparian					
						and depend upon abundant, clearly cold value for continued nearly existence.			General-made					
									improvements in water					
257					81-C	SWCDs and watershed councils are improving water quality in Oregon.	1		quality					
									Additional MMs Not					
258					79-A	Disagrees with proposed decision. Additional MMs for forestry are not needed.	1		Needed	Against	1			
259					79-B	Supports OFIC letter and statements they make	1		Forestry General	8	-			
233				-	,,,,	OFPA includes a specific mandate to the Board of Forestry to achieve and maintain water quality			, , , , , , , , , , , , , , , , , , ,					
						standards, and provides the Oregon Department of Forestry with enforcement authority. The EPA and								
						NOAA have produced little meaningful evidence that Oregon's forest practices rules currently fail to meet								
						these water quality and beneficial use objectives. To the contrary, there is a large body of science								
						indicating that modern Oregon forest practices are either neutral to positive in terms of their effect on								
260					79-C	aquatic life	2		Forestry General					
						Oregon's forest sector has a 15-plus year history of superior voluntary riparian watershed enhancement								
						accomplishments. Restrictions/actions proposed by the EPA and NOAA would stifle these valuable								
		Associated Oregon				watershed improvements. Additionally, the excessive restrictions envisioned by EPA and NOAA would								
261		Loggers, Inc.	organization	3/21/14	79-D	unintentionally smother the willing cooperative stewardship ethic common in the forest sector.	2		Forestry - Riparian					
						Professionals from the forest and aquatic resource communities now recognize that active riparian								
						management is often necessary to improve achievement of conservation goals. Initial results from the								
265					 -	first two of the three Oregon forest stream research studies (Watersheds Research Cooperative) indicate	_ [Facesta Bi i					
262					79-E	a positive fish response following timber harvesting under the current OR Forest Practices Act & Rules.	2		Forestry - Riparian					
						There may be opportunities to enhance and sustain gains in fish populations through active riparian								
						treatments, including harvesting to increase discharge, thinning of riparian forests to levels that promote								
						primary production in the stream or adjacent understory, and large wood placement in streams. These								
						enhancements are best accomplished via voluntary forest landowner stewardship efforts. Resources								
						diverted toward unnecessary EPA and NOAA-proposed restrictions would limit the ability of private								
						landowners to invest in watershed restoration efforts, including enhancements to riparian areas and								
						forest roads. Where active management provides financial gains to the forest landowner, there are								
262					79-F	greater opportunities to address water resource enhancement needs.			Forestry - Riparian					
203					79-6	greater opportunities to address water resource enhancement needs.			Forestry - Riparian					
						Any criticism of the existing OR Forest Practices Act and Rules must be tempered against a dynamic								
						background of evolving science and management experience. For example, clean wood to enhance fish								
						passage and avoid oxygen deficits changed to promote large wood recruitment. Or, retain large conifers								
264					79-G	along streams to understanding the benefits of riparian hardwoods and diversity and conifers.			Forestry - Riparian					
									, , , , , , , , , , , , , , , , , , , ,					
						The Oregon Board of Forestry must continue to have the authority and latitude necessary to develop				I added text				
						practical, understandable, and effective riparian and watershed rules tailored to Oregon's forest				beginning text from				
						stewardship community. It is by this Board of Forestry latitude to conduct state-specific				original letter to				
						policymaking—suited to Oregon's forests-streams-landowners-operators-stewardship culture—that can				better capture full				
						best provide certainty to forest landowners, and can ideally foster increased future conservation				concept. Changed				
						investments made in watershed improvements. EPA and NOAA's intended rigid, regulatory norms—such				this code from 79-E				
						as excessive one-size-fits-all singular distances—would stifle Oregon forest community's stewardship				to 79-H in order to				
						ethic, and thereby reduce/or end the valuable contemporary investments in watershed enhancement				keep comments in				
265					79-H	experienced on Oregon forestlands (since the 1998 advent of the Oregon Plan for Salmon & Watersheds)	3		General - one-size-fits all	order.				
						100 is an effective nonpoint source pollution reduction program, and the State should be given credit			General-made					
						for its success. It limits new development in urban growth boundaries where sewer and stormwater			improvements to water					
266					80-A	services are planned for.	1 L	and Use	quality	unclear			1	
						The second of three concerns for NPS controls in Oregon's coastal zone is the need for improved								
						compliance programs and metrics to monitor agricultural sources. An overall compliance strategy for								
						ensuring that AWQM plans and rules are adequately implemented to effectively meet TMDL load								
						allocations and water quality standards is needed. There must be a policy and process for proactive								
						determination of the implementation of required elements of the Agriculture Water Quality Management	A	Ag compliance and						
267					80-F	Plan, and an enforcement response plan to correct instances of non-compliance.	3 in	mplementation	Ag-general					
						The third of three concerns is the continued efforts to link the Oregon Forest Practices Act to water								
						quality standards outcomes. They applaud the recent collaboration between the Oregon EQC and BOF to								
						improvement communication and share data related to water quality compliance of the Oregon FPA and		Pro-FPA compliance	_					
268					80-J	to understand how FPA can be used as a tool to meet Oregon WQS.	4 w	vith WQS	Forestry-general					
		Oregon Association of							Forestry-general;					
262		Clean Water Agencies,			00				Monitoring-improvements					
269		Legaue of Oregon			80-K	Efforts by ODF to monitor and improve forest practices should be encouraged and continued.	4		needed					

			T _ T						Τ			1
A	B	С	D	E	F	G H	I	J	K	L	М	N
	Cities, Special Districts				Additional efforts are needed to address legacy road conditions and protection of non-fish bearing streams		Forestry-roads; Forestry-					
270	Association of Oregon	organization	3/21/14	80-L	in oregon's forests.	4	riparian					
					Asks NOAA/EPA to give state additional time to meet remaining conditions; state has already made good							
271				82-A	progress in meeting most of conditions.	1	General-need more time			1		
					Notes ODF has been doing good work to improve WQ, riparian habitat, and road improvements. Cites #		Forestry-general; Forestry-					
272				82-B	of culverts replaced and other stats.	1 and 2	riparian; Forestry-roads					
					Cites ODFW study that showed many out-migrating and returning salmon to Tillamook State forest land.	more returning salmon						
273				82-C	OR allows salmon harvest because #s are good.	2 in Tillamook forest	General-salmon;					
					Asks NOAA/EPA to review Trask Study re: forestry practices and water quality that presents factual		Forestry-general; General-					
274				82-D	science. Our decision should be based on science.	2	water quality					
							General-salmon; General					
	Tillamook Board of				Notes they have been part of group of federal, state, county and private citizen group that's been working		made improvements in					
275	Commissions	organization	3/21/14	82-E	to collaborative restore fish pass in Tillamook area. Taking a novel approach and having good success.	2	water quality	Against				
					Very concerned about pesticide spraying on private forestsimpacts humans, animals and organic							
276				50-B	farming.	1	Forestry-pesticides	Unclear			1	
							Salmon-need more					
					Water quality standards in coastal watersheds fail to protect Oregon's native fishes including; Coho and		protection; General-fails to					
277				83-C	Chinook salmon, Cutthroat, Summer and Winter Steelhead.	1 WQS	meet WQS/uses					
					DEQ is not protecting our waters sufficiently to ensure our fish are free from toxic contamination, and		Salmon-need more					
278				83-D	that our rivers are not protected enough so we can swim in all of our watersheds	1 Toxics affecting fish	protection					
					The logging of unstable slopes and Type N stream created polluted runoff and the existing logging road		forestry-riparian; forestry-				1	
279				83-H	network is also source of sediment.	1	landslides; forestry-roads					
							General-voluntary					
					Voluntary efforts to protect water quality and habitat have been dwarfed by the lack of rules to protect		approaches; General-need					
280				83-J	water quality.	2	to improve water quality					
281				83-K	No rules in place to protect ecological function and processes on industrial timber or agricultural lands	2	general					
201				03 11	Do not believe that Oregon has in place a program to adequately protect riparian zones that are critical to		Forestry-buffers; Ag-					
282				83-L	maintaining cold clean water essential to the recovery and health of our native aquatic species	2	buffers; General-water					
					Watershed council completed a herbicide monitoring program found runoff from all sources of		General-need to improve					
					applications – road side use, and agricultural and forestry operation. While they may have applied it		water quality; forestry-					
283				83-M	correctly there was still run-off and the rules were ineffective to truly protect water quality	2	pesticides; ag-pesticides					
						CZARA approval relies						
						not on specific						
					The focus of CZARA is not the use of specific measures identified in the 6217(g) guidance, but rather the	measures, but design						
					design and implementation of appropriate measures – regardless of form - that can be developed and	and implementation of	General-problems with					
284				84-E	applied to ultimately achieve measurable beneficial results.	3 appropriate measures	CZARA					
					Congress specifically required that such measures could only be implemented so long as they are	11 1	General-problems with					
285				84-F	"economically achievable."	4 CZARA guidance	CZARA					
286				85-A	Support disapproval	1	Decision			1	1	
							General - fails to meet					
287				85-B	Concerne with water quality, toxics, deforestation and fisheries health	1	wqs/uses					
					FPA, Right to Forest and Pesticide Pre-emption laws have led to water quality impairments/poisoning in		Forestry- General; Forestry					
288				85-C	Rogue/Umpqua.	1	- pesticides					
				55 0	Coastal watersheds are impaired due to state govn't corruption and control by forest and chemical	-	restrates					
					industry. Cites 2 examples of how EPA has gotten involved with two problems in OR (OR Health							
289	(b) (6)			85-D	Authority's Hwy 36 investigation and Curry County airial spraying poisoning)	2	Forestry - pesticides					
290	(-) (-)	citizen	3/20/14	85-E	Supports Beyond Toxics Comments.	2	Forestry - pesticides					
230	+	CHIZCH	3/20/17	0.5 L	Suppose Sejone Tomos Comments.	including excerpts from	1 orestry pesticities					
						January 13, 1998, EPA						
						and NOAA, Findings						
						for the Oregon Coastal						
						Nonpoint Program.						
						Excerpts from 2004						
						interim decision						
1						document and 2008						
						response to Oregon's						
						2007documents.						
						Citation of September	Forestry General;					
					Oregon has repeatedly submitted a coastal nonpoint program that EPA and NOAA have repeatedly	20, 2006 email to	Forestry riparian;					
					refused to approve, in large part because it did not include adequate regulation of forest practices in the							
201				57 D		Robert Baumgarnter 9 from Amanda Punton.	Forestry landslides;					
291	_		∤	57-D	form of additional management measures.	9 from Amanda Punton.	Forestry roads				1	
					Fully agreed with EDA and NOAA findings that Orogan has failed to develop and included a live of the findings that Orogan has failed to develop and included a live of the findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and NOAA findings that Orogan has failed to develop and the orogan has failed to develop an							
202				60 D	Fully agrees with EPA and NOAA findings that Oregon has failed to develop and implement additional	12	E					
292				57-E	management measures for foresry and so has failed to submit an approvable program under CZARA.	12	Forestry General					

						-			T					
	Α	В	С	D	E	F	G	H OR Forest Practices	I	J	K	L	M	N
						Oregon's voluntary and regulatory forest practices programs do not sufficiently protect water quality or		Act, Revised Statutes						
293					57-F	designated beneficial uses.	12	2 §527.610	Forestry General					
233					37-1	designated beneficial uses.	1.2	\$327.010	General water quality;					
									Monitoring					
						Oregon's forest practices program improperly equates compliance with forest practices regulations with			improvements needed;					
294					57-G	compliance with water quality standards.	13	ORS §527.770	Forestry General					
						ODEQ has failed to use its authority to override ODF's inadequate forest practices in order to bring		Comparisons to State of	General water quality;					
295					57-H	compliance with water quality standards	13	Washington esp. HCP's	Forestry General					
								Declaration of						
								Christopher A. Frissell, Ph.D. submitted in	Forestry General;					
								support of letter and	Forestry riparian;					
								incorporated by	Forestry landslides;					
296					57-I	Failure to protect water quality from impacts due to roads, buffers, and logging on steep/unstable slopes	15	reference	Forestry roads					
									General fails to meet					
						Effectiveness of the overall system of riparian management zones in maintaining sufficiently low turbidity			wqs/uses; Forestry					
297					57-J	is diminished at a watershed scale due to inadequate buffers in headwater basins.	17	7	riparian					
						Clearcutting riparian areas around streams increases the probability of debris flows and sediment delivery			Forestry riparian;					
298					57-K	to streams due to the accumulation of debris.	18	5	Forestry clear cuts			4	23 7	34
						Riparian buffers in Oregon's rules do not sufficiently prevent the warming of streams that accompanies loss of canopy cover, do not sufficiently filter nutrients and sediment from surface waters draining								
299					57-L	through riparian buffers, and do not protect streams from debris flows and landslides.	20		Forestry riparian					
233				+	37.1		20		General fails to meet					
									wqs/uses; Forestry					
						The science is overwhelming: Oregon's riparian buffer and steep slope loggigng rules are insufficient to			riparian; Forestry					
300					57-M	protect water quality and all designated beneficial uses.	20)	landslides					
						The construction, use, maintenance, and existence of logging roads detrimentally affects stream health			_					
301					57-N	and aquatic habitat by increasing sediment delivery and stream turbidity.	20)	Forestry roads					
						Oregon's forest practices rules impose generic BMPs and do not use pertinent water quality data to drive road management decisions; in fact they are precisely the kinds of BMPs that have been shown to be			General water quality;					
302					57-O	inadequate and ineffective at protecting water quality and beneficial uses.	22	,	Forestry roads					
302					37 0	madequate and merceure at proceeding water quanty and concreta access			Torestry Tours					
								Oregon's rules do not						
								require ODF to						
								disapprove written plans						
								for the construction of						
						Oregon forest practices regulations applicable to forest roads consistently prioritize logging over		logging roads that may result in adverse water	General water quality;					
303					57-P	protection of water quality.	23	quality impacts.	Forestry roads					
300					371	F		"minimizing risk" is not						
						Oregon's road location rule does not require operators to eliminate or avoid water quality problems; rather,		the same as avoiding						
						it simply requires them to minimize risk. EPA and NOAA cannot approve Oregon's CNPCP component		adverse water quality	General water quality;					
304					57-Q	for forest roads simply based on rules that require operators to minimize the risk to waters of the state.	23-24	impacts	Forestry roads					
					1			"avoid locating roads						
								on steep slopes, slide areas, high landslide						
								hazard locations where						
					1			viable atlernatives						
					1			exist" and "make use of						
								existing roads where						
								practical." Who						
								decides what is practical						
					1	Oregon's forest road rules are so loaded with vague, ambiguous, precatory, and conditional language that they can afford EPA and NOAA no rational basis for concluding that they ensure protection of water		or vialbele and what criteria are used in the	Forestry landslides;					
305					57-R	quality and designated beneficial uses in Oregon's coastal areas.	2/	analysis?	Forestry landslides; Forestry roads					
303					37-10	EPA and NOAA cannot rely on Oregon's enforcement authority where enforcement most likely only			1 orosity Toutes					
					1	occurs after damage to water quality occurs. OAR 629-625 rules generally mean that so long as								
306					57-S	operators are not harming wter quality they are in complance with the rule.	24	1	Forestry General					
						Oregon's wet weather road use rule's purpose is "to reduce the delivery of ifine sediment to streams caused by the use of forest roads during wet periods that may adversely affect downstream water quality in Type								
					1	For Type D streams," is designed to reduce delivery of fine sediment, but not esigned to elimate the								
307					57-T	elivery of fine sediment or to ensure that such delivery does not impair water quality.	25	OAR-625-0700	Forestry roads					
				*				•	· · · · · · · · · · · · · · · · · · ·					

Λ	D	С	D	E		G	Н	T T	1	K		М	N
A	D	C	D		Oregon road rules lack a requirement to bring existing, inactive logging roads and other forest roads up to	G	П	1	J	K	L	IVI	IN
					a standard that effectiely prevents water quality problems. This resultes in many forest roads which are								
					not currently being used for logging falling through the regulatory cracks and continuing to have a								
200				57-U	negative impact on water quality.	26		Forestry roads					
308			-	37-0	negative impact on water quanty.	20		General water quality;					
								1 1					
					The second of th			Monitoring					
					Implementation of BMPs without reference to and monitoring of applicable water quality standards	25		improvements needed;					
309				57-V	including the protection of designated beneficial uses is simply inadequate to protect Oregon streams.	27		Forestry General					
							Current FMP goals						
							allow clear-cutting of						
					Despite EPA's and NOAA's telling Oregon for over a decade that its forest practices programs are not		roughly an additional						
					sufficiently protecting water quality, and despite ample and relevant science demonstrating that clear-		100,000 acres above the						
					cutting and other logging practices in Oregon generate nonpoint source pollution that harms water		goal in the previous	Forestry General;					
310				57-W	quality, Oregon substantially increased the amount of clear-cutting allowed in North Coast state forests.	28 1	FMP.	Forestry clear cuts					
					DEQ has issued NPDES permits in the Rogue River Basin on the assumption that nonpoint sources will								
					contribute zero heat load, but made a completely contrary assumption when it allwoed the City of								
					Medford to plant trees on agricultural lands in lieu of directly reducing the thermal load in its discharge.								
					This contrary assumption undermines any suggestion that Oregon relies on the load allocations								
					established for nonpoint sources in its temperature TMDLs to protect riparian vegation sufficient to meet			General fails to meet					
311				57-AA	water quality standards.	37		wqs/uses; Ag General					
	7		1 h			1		-					
						lo	ODA findings for						
					Approvable state programs are required to assess over time the success of the management measures in		coastal watersheds						
					reducing pollution loads and improving water quality. Because it has not identified the practices that		(Coos/Coquille,						
					constitute Oregon's version of meeting management measures, it would be impossible for the state to		MidCoast, North Coast,						
					ascertain whether the management meaures are in place and whether they have been successful in reducing		Bear Creek, Inland	General need to consider					
312				57-BB	pollutant loads sufficiently to avoid the need for additional managment measures.		Rogue, Umpqua)	other issues; Ag General					
312	-		1	37-00	Oregon water quality standards and designated uses require the implementation of additional management	37	Kogue, empqua)	General fails to meet					
					measures. Given that in almost all instances, an allocation to all nonpoint sources for temperature			wqs/uses; General need					
					increases is zero, it is even more likely that agricuture is currently contributing to violations of			to consider other issues;					
212				57-CC	temperature standards and therefore requires additional managment measures.	20		Ag - General					
313			-	37-00	temperature standards and therefore requires additional managinent measures.	39		Ag - General					
					Poor Create course he hold up as an around of hour Operan has a granum to control emissible and								
					Bear Creek cannot be held up as an example of how Oregon has a program to control agricultural								
					nonpoint source pollution because it is primarily an example of how unique circumstances can pressure	4.5		General - voluntary					
314				57-FF	nonpoint sources into taking significant action. Absent those circumstances, the actions will not occur.	46		approaches; Ag General					
								General fails to meet					
								wqs/uses;					
								Toxics/Pesticides; Forestry					
					Oregon's management measures for pesticides are not adequate to meet water quality sandards including			- pesticides; Ag					
315				57-GG	full support of desingated uses in Oregon and additional management measures are required.	47		Pesticides					
					Oregon ignores many of its standards and data when it develops its 303d lists with the effect that data are								
316				57-JJ	not translated into impaired waters listings with any regularity.	49		General water quality					
I I			[Oregon's CNPCP fails to identify land uses and critical coastal areas that will require additional			General water quality;	-				
					management measures to attain and maintain water quality standards because it relies on a flawed Clean			General need to consider					
317]	57-KK	Water Act section 303d listing process to identify impaired streams.	50	CZARA Program Guida	other issues					<u>L</u>
			[EPA and NOAA guidance urges states to rely on their 303d list for purposes of CZARA, but the problem								
					with doing so in Oregon is that the DEQ has, for many years, failed to meet the requirements set out in			General water quality;					
					federal regulations to "assemble and evaluate all existing and readily available water quality related data			General need to consider					
318				57-LL	and information to develop the list."	52		other issues					
	1		1					General water quality;					
					DEQ does not use its nonpoint source assessments to develop its 303d lists, contrary to EPA listing			General need to consider					
319				57-MM	guidance and EPA/NOAA CZARA guidance.	52		other issues					
	1		1 h					General fails to meet					
					Oregon fails to identify land uses causing or threatening water quality impairments by ignoring a wide			wqs/uses; General					
					variety of technical information available to identify land uses that consistently cause or contribute to	lı	E.g., ESA-listed coho	Salmon; General need to					
320				57-NN	violations of water quality standards in coastal watersheds and harm designated uses.		and their habitat.	consider other issues					
	=		†	J/ 1111	Oregon does not use TMDLs to identify critical coastal areas as required for approval programs under	33 (General need to consider					
321				57-OO	CZARA.	58		other issues					
321	-		-{	37-00	CA IIU II	50		General fails to meet					
								wqs/uses; General					
					Oragon's TMDI, program changes numeric criteria for temperature by accine coation 2022 fodoval			* '					
222				E7 DD	Oregon's TMDL program changes numeric criteria for temperature bypassing section 303c federal	50		salmon; General need to					
322	4		↓	57-PP	approval and producing criteria in excess of safe levels for cold-water species.	59		consider other issues					
								General fails to meet					
1					Oregon's TMDL program fails to result in changes to nonpoint source controls sufficient to meet load			wqs/uses; General need					
323				57-QQ	allocations established in TMDLs and necessary to meet water quality standards.	61 4	40 CFR § 130.2 (i)	to consider other issues					

Α	D.	С	D	E		G	Н	ī		T K	T 1	М	N
A	Ď	C	U		Most Oregon coastal watershed TMDLs establish load allocations for nonpoint sources but their	u	П	General fails to meet	J	, , ,	L L	IVI	IN
					associated water quality management plans fail to support an effective coastal nonpoint source pollution			wqs/uses; General need					
324				57-RR	control program	62	2	to consider other issues					
								General fails to meet					
					Despite nearly all of the TMDLs for temperature in Oregon's coastal watersheds' having established a load			wqs/uses; General need					
					allocation of zero heat increase for nonpoint sources, the load allocations have not been used to determine			to consider other issues;					
325				57-SS	minimum riparian buffer width, height, and density to achieve the load allocations.	69		Forestry riparian					
					Oregon TMDLs fail to evaluate whether CZARA management measures are sufficient to meet load			General fails to meet					
					allocations for nonpoint sources and fail to establish additional management measures needed to meet			wqs/uses; General need					
326				57-TT	load allocations for nonpoint sources.	70)	to consider other issues					
							"Methodology for						
							Oregon's 2012 Water						
							Quality Report and List	G1 f-:1- tt					
					Oregon fails to systematically address violations of water quality standards caused by excess		of Water Quality Limited Waters."Oregon	General fails to meet wqs/uses; General need					
227				57-UU	sedimentation.	7,	DEQ	to consider other issues					
327				37-00	Scamentation.	/(DEQ	General fails to meet					
					The current status of listed aquatic species in Oregon, and Oregon's failure to make a dent in recovery			wqs/uses; General					
					efforts for those species, demonstrate that Oregon's water quality protection programs are inadequate and			Salmon; General need to					
328				57-VV	not meeting CZARA standards.	81	ı	consider other issues					
			1		EPA and NOAA have violated the law by failing to withhold CWA and CZMA grant money from Oregon								
					since 1998. EPA's and NOAA's "conditional approval" of Oregon's CNPCP contravenes CZARA and								
329				57-WW		8	16 USCA § 1455 b c	General					
					EPA and NOAA have violated the law by failing to withhold CWA and CZMA grant money from Oregon	-							
					since 1998. EPA's and NOAA's "conditional approval" of Oregon's CNPCP contravenes CZARA and								
330				57-WW		81	16 USCA § 1455 b c						
					The rules generally do not protect non-perennial, or intermittent, streams, which Oregon's rules state								
PL			NEWA	57-AAA	will be determined "by the State Forester based on a reasonable expectation that the stream will have	17	Riparian						
201					summer surface flow after July 15," nor is there any required riparian management area for seeps and		P						
331					springs								
					If riparian buffers are not required for non-fish bearing streams, they become a source of excess								
PL			NEWA	57-BBB	sediment to perennial, fish-bearing channel networks as sediment is transported downstream. Thus, the	17	Riparian						
222					effectiveness of the overall system of riparian management zones in maintaining sufficiently low turbidity								
332					is diminished at a watershed scale due to inadequate buffers in headwater basins. Landslides in clearcuts are more likely to deliver to streams, and to impair water quality with episodic								
333 PL			NEWA	57-CCC	and chronic sedimentation, than landslides in forested areas.	18	Riparian						
333					Increased erosion and corresponding increases in sediment delivery and sedimentation contribute to								
					channel simplification, including losses in the depth, frequency, and quality of pools and off-channel								
					habitat critical for fish rearing. Increased sedimentation also contributes to increased levels of fine								
PL			NEWA	57-DDD	sediment, which greatly reduces salmonid survival from egg-to-fry life stages. Elevated sediment delivery	19	Riparian						
					also increases turbidity that can impair salmonid sightfeeding and cause gill damage—both factors that								
334					can contribute to indirect mortality								
					Increases in sediment delivery can further harm coho by contributing to increases in width/depth ratios								
PL			NEWA	57-EEE	in sensitive streams, which inevitably increases summer water temperatures even in the absence of the	19	Riparian						
				3. 222	loss of shade.								
225													
335 336											+		
337											+		
337					The goals and vision of the Oregon BOF is to support a broad suite of BMPs to insure that forest						+		
					operations are conducted in a manner that supports water quality standards. The FPA describes the								
					relationship between the Board and the EQC giving oversight to the DEQ in carrying out the rules and								
338 AH				0-C	statutes regarding implementation of the CWA. ORS 527.765 describes the relationship.	1		Forestry - general					
					The 2002 Sufficiency Analysis found that for small and medium fish streams, current stream buffer								
					prescriptions may result in short-term temperature increases on some Type F streams; however the								
					significance of the potential temperature increases at the watershed scale is uncertain. Follow-up								
]					monitoring (RipStream) showed that riparian protections on small and medium fish-bearing streams do								
339 AH				0-D	not insure achievement of the PCW standard.	11	1	Forestry Riparian					
					Currently the BOF is conducting rule analysis for small and medium fish bearing streams in response to ODF's RipStream monitoring results. Small and medium fish bearing stream protection rule analysis and								
					Board action taken to implement any resulting changes in BMPs is planned for completion by the end of								
340 AH				0-D	the year.	13	2	Forestry - Riparian					
		1	1		I a year	1.2	1	rapailai		1	1	1	1

	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N
						Stream temperature and shade one to five years post harvest; temperature effects downstream of harvest;								
241	A T T				0.5	large wood recruitment; and riparian stand characteristics and functions analyses are a priority and ODF	12							
341	AH				0-E	will work with the Board and the DEQ to establish timelines for completion. Under ORS 468B.110(2), ORS 527.765, and ORS 527.770, the Board of Forestry establishes best	12							
						management practices or other control measures by rule that, to the maximum extent practicable, will								
						ensure attainment and maintenance of water quality standards. If the Environmental Quality Commission								
						does not believe that the FPA rules will accomplish this result, the EQC is authorized to petition the								
						Board for more protective rules. If the EQC petitions the Board for review of BMPs, the Board has two								
						options: terminate review with the EQC concurrence, or begin rulemaking. If the Board determines that BMPs should be reviewed, rules specifying the revised BMPs must be adopted not later than two years								
						from the filing date of the petition for review, unless the Board, with concurrence of the EQC, finds that								
342	AH				0-F	special circumstances require additional time.	12		Forestry - General					
						Uses the ECC's assessed the Decel is assessed to take interior and on the control of the control								
						Upon the EQC's request, the Board is required to take interim action "to prevent significant damage to beneficial uses" while the BMPs are being reviewed. The "BMP shield" under ORS 527.770 is lost if the								
						Board fails to complete BMP revisions, or makes a finding that revisions are not required, within the								
						statutory deadline. In addition, under 468B.110(2), the EQC cannot adopt rules regulating nonpoint								
						source discharges from forest operations and the DEQ cannot issue TMDL implementation plans or								
						similar orders governing forest operations unless "required to do so by the CWA." This authority would								
343	ΛИ				0-G	also be triggered by the failure of the Board to adopt adequate BMPs to implement TMDL allocations for forestry or to avoid impairment of water quality such that standards are not met.	12		Forestry Legal					
J + 3	4 3.1.1				0-0	As EPA and NOAA determined in 1998, Oregon's forestry program satisfies the CZARA forestry	12		1 orestry Legal					
						measures. The forestry program also includes provisions for revising or implementing additional forestry								
						measures as needed to address water quality impairments. Oregon's forestry program, in concert with								
						Oregon's policy and regulatory framework for protecting water quality relies on land use laws (Goal 4 –								
						Forest Lands), an adaptive Forest Practices Act (FPA), and voluntary measures under the Oregon Plan for Salmon and Watersheds. This three-tiered approach results in forestland having the highest water quality								
						in Oregon, and avoids the impairment that would be caused by land use changes (ex-urban sprawl) seen								
344	AH				0-H	in other states.	12		Forestry Rules					
						Under existing State forest practices, medium, small, and non-fish bearing streams may be subject to loss			·					
						of sediment retention capacity, increases in delivery of fine sediments, and increases in temperature due to								
						loss of riparian vegetation. Another concern is provision of adequate long-term supplies of large woody								
						debris in medium, small, and non-fish bearing streams, a shortage of which can result in decreased sediment storage in upstream tributaries, increased transport and deposition downstream, and overall								
345	AH				0-I	adverse impacts to beneficial uses.	13		Forestry - Riparian					
						Oregon agrees that these are valid concerns, and the Board of Forestry is addressing them through the			, , , , ,					
						Forest Practices Act. The FPA requires the state to regulate forest practices to ensure water quality								
						standards are achieved. (OAR 629-635-0100) This regulatory program includes provisions to identify								
346	ΔН				0-J	inadequacies and revise regulations as needed to ensure water quality is protected. Oregon's efforts to address concerns on small and medium fish streams are described below.	14		Forestry Riparian					
340	AII				0-3	Changes to protections of Small and Medium Fish Streams since 1998 include 1. the use of physical	14		Torestry Riparian					
						habitat criteria to determine if streams may support fish use. (OAR 629-635-0200). Reclassifying streams								
						with human-made barriers as fish-bearing upstream to the first natural barrier (OAR 629-635-0200).								
						Voluntary measures for high aquatic potential (HAP) streams, including large wood placement, additional								
						basal area in stream buffers, large tree retention and treating Large and Medium sized non-fish streams the same as fish streams for stream buffer retentions. (Report to Oregon Watershed Restoration								
347	AH				0-K	Inventory).	14		Forestry Riparian					
						· ·			, 1					
						The Board is conducting rule analysis for small and medium fish bearing streams in response to ODF's								
						RipStream monitoring results. Small and medium fish bearing stream protection rule analysis and Board action taken to implement any resulting changes in BMPs, is planned for completion by the end of this								
						year. Stream temperature and shade one to five years post-harvest; temperature effects downstream of								
						harvest; large wood recruitment; and riparian stand characteristics and functions analyses are a priority								
348	AH				0-L	and ODF will work with the Board and the DEQ to establish timelines for completion.	14		Forest Riparian					
						Oregon has invested in three paired watershed studies that are testing hypotheses related to harvest effects								
						at a watershed and reach scale as well as downstream. Results from the Hinkle Creek paired watershed								
						study support the variable temperature response of non-fish bearing stream to harvests under forest practices standards. They also indicate that there was no measureable downstream effect on stream								
						temperatures. The Trask paired watershed study received additional funding from the 2013 legislative								
						session to continue vital research on small non-fish bearing streams. The results from these studies will								
						complement other research on these highly variable headwater stream systems and allow Oregon to								
349	AH				0-M	evaluate the current level of protection.	14		Forestry- Riparian					
						The paired watershed studies and other monitoring programs demonstrate the State's commitment to a								
						continuous learning and adaptive management approach to forestry best management practices. The state will use this important research and other information to ensure a science-based analysis of the								
350	AH				0-N	effectiveness of current measures on non-fish bearing streams.	15		Forestry - Riparian					
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	ВС	D	-	- I		Н	T		V I	L M	
A	В	D	<u> </u>	Executive order 99-01 established the Oregon Plan for Salmon and Watersheds (OPSW, implemented as	G	п	1	J	N I	L IVI	IN
				ORS 541.985). This uniquely Oregon approach to improving water quality, salmon habitat, and							
				watershed health is an overarching plan that prioritizes necessary actions throughout Oregon for restoring							
351 AH			0-O	and protecting watershed health and function thus providing for a resilient ecosystem	46		Forestry - Riparian-General				
				The executive order also directed Oregon to complete a comprehensive review of current forest practices							
				in regard to state water quality standards and the protection and restoration of salmonids. This							
				comprehensive review, the Sufficiency Analysis (ODF and DEQ 2002), coupled with recommendations of from the Independent Multidisciplinary Science Team (IMST 1999) and Forest Practice Advisory							
				Committee (ODF 2000) identified additional forestry measures to address gaps in current FPA rules and							
352 AH			0-P	BMPs that may lead to potential negative impacts from forest activities near streams.	47		Forestry - Riparian-General				
332 / 111		1	0.1	Birth 3 that may lead to potential negative impacts from forest activities fical streams.	77		Torestry Repartan General				
				The Board formally completed addressing all rule concepts identified in the FPAC report on April 20093							
				with the inclusion of the remaining two rule concepts in and endorsement of the Oregon Plan for Salmon							
				and Watersheds voluntary measures (Morgan 2012). While the April meeting closed the FPAC process,							
				the Board's ongoing adaptive management process, including policy analysis, rules and BMPs review,							
				research, and monitoring frameworks, continues with ongoing review and improvement of forest practices							
				resources protection issues. Key examples include the ongoing Watershed Research Cooperative4 paired-							
252 411			0.0	watershed studies at Hinkle Creek, Trask River, and Alsea Revisited, the ODF RipStream study, and the	4.0		F . B' . G .				
353 AH			0-Q	Board's rule analysis on small and medium fish streams. The Statewide Evaluation of Forest Practices Act Effectiveness in Protecting Water Quality (ODF and	48		Forestry - Riparian-General				
				DEQ 2002) identified additional forestry measures to address gaps in current FPA rules and BMPs that							
				may lead to potential negative impacts from forest management activities near streams. The analysis							
				concluded that, with respect to all applicable standards (temperature, sedimentation, turbidity, aquatic							
354 AH			0-R	habitat modification, and bio-criteria):	49		Forestry Riparian				
				Standards for some medium and small Type F streams in western Oregon may result in short term							
				temperature increases at the site level. However, the significance and scope of this increase is uncertain,							
				and it may be offset at the landscape scale by other factors. Relevant to the habitat modification standard							
				and criteria, large wood potential for some of these streams are less than what was assumed under the							
355 AH			0-S	1994 rules.	49		Forestry - Riparian				
				Standards for some small Type N streams may result in short-term temperature increases at the site level							
				that may be transferred downstream (this may impact water temperature and cold-water refugia) to fish-							
				bearing streams. The significance and scale of this change is uncertain, and it may be offset at the landscape scale. Relevant to the habitat modification standard and criteria, large wood potential delivered							
				by debris torrents (typically in areas of very steep topography) along these streams may be less than							
356 AH			0-T	optimal.	49		Forestry - Riparian				
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				Oregon's concerns were consistent with the 1998 Findings for the Oregon Coastal Nonpoint Program							
				(NOAA and EPA 1998). Under Section X, "Critical Coastal Areas, Additional Management Measures							
				and Technical Assistance" the NOAA and EPA found: Under existing State forest practices, medium,							
				small, and non-fish bearing streams may be subject to loss of sediment retention capacity, increases in							
				delivery of fine sediments, and increases in temperature due to loss of riparian vegetation. Another							
				concern is provision of adequate long-term supplies of large woody debris in medium, small, and non-fish bearing streams, a shortage of which can result in decreased sediment storage in upstream tributaries,							
357 AH			0-U	increased transport and deposition downstream, and overall adverse impacts to beneficial uses.	49		Forestry - Riparian				
337 AII			0-0	Non-Fish Bearing Stream Protections – The FPA contains language that prescribes management measures	42		Porestry - Kipanan				
				which protect small non-fish bearing streams from potential impacts during forest management activities							
				(OAR 629-630-0700 (5), 629-630-0800 (2)), stream crossings (OAR 629-630-0800 (4)), and requires							
358 AH			0-V	vegetation retention in certain instances (OAR 629-640-0200 (6)).	51		Forestry - Riparian				
				the FPA requires prompt reforestation after harvest along small non-fish bearing streams (OAR 629-610-							
				0040 (2)). This requirement ensures rapid recovery of riparian protection provided by forest tree species.							
				An exception to prompt reforestation does exist however when an approved land use change is filed.							
250 411			0.117	When forestland is converted to another land use incompatible with forest tree species a different set of	5.1		F (P')				
359 AH			0-W	land use laws and riparian protections would apply. Riparian Management Areas (RMAs) Upstream of Artificial Barriers –In 2007, the Board adopted new	51		Forestry - Riparian				
				rules that apply to streams classified as non-fish bearing as a result of an electrofishing survey upstream							
				of a man-made barrier to fish migration. The new rule stated that the upstream portion of the stream							
				should be correctly classified as fish-bearing (Type F), upstream to the first natural barrier. This rule							
				change closely aligns with stream crossing improvements being completed as a result of voluntary or							
				regulatory measures and preserves an intact RMA to benefit fish and water quality when upstream habitat							
				access is restored. The Board also adopted a rule that allows fish presence/absence to be determined by							
				the use of field-based physical habitat criteria surveys in addition to electrofishing field surveys. Use of							
				the physical habitat criteria is likely to result in more conservative estimates, in terms of fish use miles, of							
360 AH			0-X	the end of fish use.	51		Forestry - Riparian				

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361 AH		0Ү	High Aquatic Potential (HAP) Streams – The Board adopted a new voluntary measure in 2009 that clearly describes physical stream characteristics that have the highest potential to benefit fish habitat by the active placement of large wood or other in-stream structures. This voluntary measure compliments the 2003 Board decision to approve additional voluntary measures designed to increase stream complexity through active in-stream wood placement and voluntary tree retention in the RMA's of fish bearing streams. Additional voluntary measures include a 60% basal area cap for medium and small fish bearing streams, no harvest within ½ of the RMA width, and retaining the largest trees in the RMA. The Board also approved adoption of a voluntary measure to promote managing large and medium non-fish bearing stream buffers the same as large and medium fish bearing stream buffers.	51		Forestry - Riparian				
362 AH		0-Z	Currently, the Board is conducting a rule analysis process for riparian protection standards for small and medium fish bearing streams. The rule objective is: "Establish riparian protection measures for small and medium fish-bearing streams that maintain and promote shade conditions that insure, to the maximum extent practicable, the achievement of the Protecting Cold Water criterion." The rule analysis was initiated in response to results from ODF's Riparian Function and Stream Temperature (RipStream) effectiveness monitoring project. RipStream is designed to monitor the effectiveness of stream protection rules as prescribed for State Forests and private forestlands. RipStream study sites are located throughout the Coast Range geographic region on small and medium sized fish-bearing streams. Currently, all 33 sites (18 Private and 15 State) have at least three years of post-harvest data and most sites have complete data sets (5-years post) for stream temperature, shade and channel data.	52		Forestry - Riparian				
			The first effectiveness analysis (Groom et al. 2011a) focused on a strict regulatory perspective of stream temperature and evaluated RipStream sites for effectiveness in meeting stream temperature standards. The analysis evaluated DEQ temperature standards, with respect to the Protecting Cold Water Standard (PCW). For the PCW standard, timber harvests on state forests did not exceed the PCW more frequently than expected under natural background conditions (5%). On private lands, Timber harvests designed to the meet the FPA riparian protection standards for Medium and Small Type F streams exceeded the PCW at a greater frequency than would be expected by chance (40 % vs. 5 % for all other stream reaches). Note: because of stream temperature complexity, this analysis estimated the probability of an exceedance of the PCW criterion across pre-harvest to post-harvest treatment reach year-pair comparisons, and cannot be used to estimate the percentage of sites that exceeded the PCW or the magnitude of temperature change. The analysis indicated that all study sites performed well in regard to the maximum temperature thresholds established by the Biological Numeric Criteria standard (16° C, 18° C) an additional peer-			Total Apparati				
363 AH		0-AA	reviewed journal article regarding the Biological Numeric Criteria is pending. A second analysis (Groom et al. 2011b) examined the magnitude of the expected change. At sites managed to FPA standards, maximum temperatures increased after harvest by an overall average of 0.7 °C. Sites exhibited variability in responses; some sites increased by 2.5 °C while other sites declined by 0.9 °C. The average change in maximum temperatures for state forest sites was 0.0 °C, and supported temperature models that considered state forest post-harvest years to resemble pre-harvest conditions. In	52		Forestry - Riparian				
364 AH		0-AB	1 7 1	52, 53		Riparian Forestry				
365 AH		0-AC	protection of water quality. The main objective of the RipStream project is to evaluate the effectiveness of FPA forest practices rules and State Forests' management strategies at protecting stream temperatures and promoting desired riparian structure. Most of the focus to date, including the ongoing riparian rule analysis process, has been on the effectiveness of FPA and the State Forest Northwest Forest Management Plan (NWFMP) riparian protections for stream temperature. Further analyses are planned on the following topics: analysis fo stream temperature and shade response one to five years post-harvest; analyses of downsteam temperature outcomes following forest harvest; large wood recruitment; and riparian stand characteristics and	53, 54		Riparian Forestry				

А	В	С	D E	F	G	Н	I	J	K	L	М	N
				"Small Type N" is an Oregon regulatory label for very small, non fish-bearing, headwater streams. While								
				the body of information is growing on these very small streams, the definition for "headwater" streams								
				varies, such that some of the available studies may actually be looking at the equivalent of "Medium"								
				streams as defined by Oregon. Small Type N streams make up the majority of the stream network								
				(estimates range from 70-90%) in most Oregon regions. Responses to harvest are highly variable in								
367 AH			0-A		54							
				Reasons for variability include: Even without harvest water quality, sediment, wood loading, nutrient (etc)							
				patterns tend to be highly variable which can make it difficult to detect a harvest response, especially if								
				the harvest effect is small; Ground water (which tends to remain stable/water quality not influenced by								
				harvest) comprises a larger percentage of their surface water than in larger streams which can moderate								
				harvest responses; Spatially intermittent streams with coarse gravels tend to be thermally non- responsive	;							
				and narrow channels can be shaded by grasses, ferns, shrubs, channel banks which may reduce the								
368 AH			0-A	importance of overstory shade.	54							
				The influence of Small Type N streams on downstream reaches has not been well documented. The WRC								
				Paired Watershed Studies (Hinkle, Alsea, and Trask) are well situated to test hypotheses related to harves	t							
				effects on site as well as downstream. Results from the Hinkle Creek paired watershed study support the								
				variable temperature response of non-fish bearing stream to harvests under forest practices standards. This								
				study also did not detect a significant change in temperature from the four harvests at the watershed outle								
369 AH			0-A	G (Kibler 2007).	54, 55							
				O THE STATE OF THE								
				Oregon continues to participate in the Oregon Watersheds Research Cooperative (WRC) at the OSU								
270 411				College of Forestry. Housed and led by OSU, The WRC conducts multi-agency, adaptive management,								
370 AH			0-A	Watershed research projects, including the Hinkle Creek, Trask River and Alsea paired watershed studies. The paired watershed studies and other monitoring programs demonstrate the State's commitment to a	55							
				continuous learning and adaptive management approach to forestry best management practices. The state								
				will use this important research and other information to ensure a science-based analysis of the								
371 AH			0-A	-	55							
	DEQ and DLCD	3/	20/14	effectiveness of current measures on non-rish bearing streams.	33							
373	DEQ unu DECD	37.	20/11									
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